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587

Applicant's or agent's file reference number	PA106PCT	International application	UNASSIGNED
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>121</u> line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 1 February 1999	Accession Number 203610
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable) The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit")	

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Authorized officer Jeryl L. Brown PCT/International Appl. Processing Div. (703) 305-3539

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Authorized officer

ATCC Deposit No. 203610**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

The applicant hereby requests that the application has been laid open to public inspection (by the Norwegian Patent Office), or has been finally decided upon by the Norwegian Patent Office without having been laid open inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Norwegian Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Norwegian Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on the list of recognized experts drawn up by the Norwegian Patent Office or any person approved by the applicant in the individual case.

AUSTRALIA

The applicant hereby gives notice that the furnishing of a sample of a microorganism shall only be effected prior to the grant of a patent, or prior to the lapsing, refusal or withdrawal of the application, to a person who is a skilled addressee without an interest in the invention (Regulation 3.25(3) of the Australian Patents Regulations).

FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

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Page 2
ATCC Deposit No. 203610

DENMARK

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SWEDEN

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NETHERLANDS

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590

Applicant's or agent's file reference number	PA106PCT	International application	UNASSIGNED
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>121</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 17 November 1998	Accession Number 203485
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application Joni M. Brown PCT/Internat'l Appl Processing Div. (703) 305-3639	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer
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Form PCT/RO/134 (July 1992)

ATCC Deposit No. 203485**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

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AUSTRALIA

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FINLAND

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UNITED KINGDOM

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Page 2

ATCC Deposit No. 203485

DENMARK

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SWEDEN

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NETHERLANDS

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593

Applicant's or agent's file reference number	PA106PCT	International application	UNASSIGNED
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>121</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>18 June 1999</u>	Accession Number <u>PTA-252</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit") 	

For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application Authorized officer <u>Jerry McDowell</u> <u>PCT/International Appl Processing Div.</u> <u>(703) 305-3839</u>	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer
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ATCC Deposit No. PTA-252**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

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AUSTRALIA

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FINLAND

The applicant hereby requests that, until the application has been laid open to public inspection (by the National Board of Patents and Regulations), or has been finally decided upon by the National Board of Patents and Registration without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art.

UNITED KINGDOM

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Page 2
ATCC Deposit No. PTA-252

DENMARK

The applicant hereby requests that, until the application has been laid open to public inspection (by the Danish Patent Office), or has been finally decided upon by the Danish Patent office without having been laid open to public inspection, the furnishing of a sample shall only be effected to an expert in the art. The request to this effect shall be filed by the applicant with the Danish Patent Office not later than at the time when the application is made available to the public under Sections 22 and 33(3) of the Danish Patents Act. If such a request has been filed by the applicant, any request made by a third party for the furnishing of a sample shall indicate the expert to be used. That expert may be any person entered on a list of recognized experts drawn up by the Danish Patent Office or any person by the applicant in the individual case.

SWEDEN

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NETHERLANDS

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596

Applicant's or agent's file reference number	PA106PCT	International application	UNASSIGNED
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>121</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution <u>American Type Culture Collection</u>	
Address of depositary institution (including postal code and country) <u>10801 University Boulevard</u> <u>Manassas, Virginia 20110-2209</u> <u>United States of America</u>	
Date of deposit <u>18 June 1999</u>	Accession Number <u>PTA-253</u>
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States)	
<u>Europe</u> In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
E. SEPARATE FURNISHING OF INDICATIONS (leave blank if not applicable)	
The indications listed below will be submitted to the International Bureau later (specify the general nature of the indications e.g., "Accession Number of Deposit") 	

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<u>Jeryl McDowell</u> Authorized officer PCT/International Appl Processing Div. (703) 305-3639

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Authorized officer

ATCC Deposit No. PTA-253**CANADA**

The applicant requests that, until either a Canadian patent has been issued on the basis of an application or the application has been refused, or is abandoned and no longer subject to reinstatement, or is withdrawn, the Commissioner of Patents only authorizes the furnishing of a sample of the deposited biological material referred to in the application to an independent expert nominated by the Commissioner, the applicant must, by a written statement, inform the International Bureau accordingly before completion of technical preparations for publication of the international application.

NORWAY

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AUSTRALIA

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FINLAND

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UNITED KINGDOM

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Page 2

ATCC Deposit No. PTA-253

DENMARK

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SWEDEN

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NETHERLANDS

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599

Applicant's or agent's file reference number	PA106PCT	International application	UNASSIGNED
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INDICATIONS RELATING TO A DEPOSITED MICROORGANISM

(PCT Rule 13bis)

A. The indications made below relate to the microorganism referred to in the description on page <u>121</u> , line <u>N/A</u>	
B. IDENTIFICATION OF DEPOSIT Further deposits are identified on an additional sheet <input type="checkbox"/>	
Name of depositary institution American Type Culture Collection	
Address of depositary institution (including postal code and country) 10801 University Boulevard Manassas, Virginia 20110-2209 United States of America	
Date of deposit 22 December 1999	Accession Number PTA-1081
C. ADDITIONAL INDICATIONS (leave blank if not applicable) This information is continued on an additional sheet <input type="checkbox"/>	
D. DESIGNATED STATES FOR WHICH INDICATIONS ARE MADE (if the indications are not for all designated States) Europe In respect to those designations in which a European Patent is sought a sample of the deposited microorganism will be made available until the publication of the mention of the grant of the European patent or until the date on which application has been refused or withdrawn or is deemed to be withdrawn, only by the issue of such a sample to an expert nominated by the person requesting the sample (Rule 28 (4) EPC).	
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For receiving Office use only <input checked="" type="checkbox"/> This sheet was received with the international application Authorized officer PCT/International Appl Processing Div. (703) 305-3639	For International Bureau use only <input type="checkbox"/> This sheet was received by the International Bureau on: Authorized officer

Form PCT/RO/134 (July 1992)

ATCC Deposit No. PTA-1081**CANADA**

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NORWAY

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FINLAND

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UNITED KINGDOM

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Page 2

ATCC Deposit No. PTA-1081

DENMARK

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What Is Claimed Is:

1. An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group
- 5 consisting of:
- (a) a polynucleotide fragment of SEQ ID NO:X or a polynucleotide fragment of the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
 - (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a
 - 10 polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
 - (c) a polynucleotide encoding a polypeptide fragment of a polypeptide encoded by SEQ ID NO:X or a polypeptide fragment encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
 - 15 (d) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y or a polypeptide domain encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X;
 - (e) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y or a polypeptide epitope encoded by the cDNA sequence included in the related cDNA
 - 20 clone, which is hybridizable to SEQ ID NO:X;
 - (f) a polynucleotide encoding a polypeptide of SEQ ID NO:Y or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X, having biological activity;
 - (g) a polynucleotide which is a variant of SEQ ID NO:X;
 - 25 (h) a polynucleotide which is an allelic variant of SEQ ID NO:X;
 - (i) a polynucleotide which encodes a species homologue of the SEQ ID NO:Y;
 - (j) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(i), wherein said polynucleotide does not
 - 30 hybridize under stringent conditions to a nucleic acid molecule having a nucleotide

sequence of only A residues or of only T residues.

2. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding a protein.

5

3. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises a nucleotide sequence encoding the sequence identified as SEQ ID NO:Y or the polypeptide encoded by the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

10

4. The isolated nucleic acid molecule of claim 1, wherein the polynucleotide fragment comprises the entire nucleotide sequence of SEQ ID NO:X or the cDNA sequence included in the related cDNA clone, which is hybridizable to SEQ ID NO:X.

15

5. The isolated nucleic acid molecule of claim 2, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

20

6. The isolated nucleic acid molecule of claim 3, wherein the nucleotide sequence comprises sequential nucleotide deletions from either the C-terminus or the N-terminus.

25

7. A recombinant vector comprising the isolated nucleic acid molecule of claim 1.

8. A method of making a recombinant host cell comprising the isolated nucleic acid molecule of claim 1.

30

9. A recombinant host cell produced by the method of claim 8.

10. The recombinant host cell of claim 9 comprising vector sequences.
11. An isolated polypeptide comprising an amino acid sequence at least
5 95% identical to a sequence selected from the group consisting of:
- (a) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
 - (b) a polypeptide fragment of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone, having biological activity;
 - 10 (c) a polypeptide domain of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
 - (d) a polypeptide epitope of SEQ ID NO:Y or of the sequence encoded by the cDNA included in the related cDNA clone;
 - (e) a full length protein of SEQ ID NO:Y or of the sequence encoded by the
15 cDNA included in the related cDNA clone;
 - (f) a variant of SEQ ID NO:Y;
 - (g) an allelic variant of SEQ ID NO:Y; or
 - (h) a species homologue of the SEQ ID NO:Y.
- 20 12. The isolated polypeptide of claim 11, wherein the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.
13. An isolated antibody that binds specifically to the isolated polypeptide
25 of claim 11.
14. A recombinant host cell that expresses the isolated polypeptide of claim 11.
- 30 15. A method of making an isolated polypeptide comprising:

(a) culturing the recombinant host cell of claim 14 under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.

5 16. The polypeptide produced by claim 15.

17. A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11 or the polynucleotide of claim 1.

10

18. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

(a) determining the presence or absence of a mutation in the polynucleotide of claim 1; and

15 (b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or absence of said mutation.

19. A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:

20 (a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample; and

(b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.

25 20. A method for identifying a binding partner to the polypeptide of claim 11 comprising:

(a) contacting the polypeptide of claim 11 with a binding partner; and

(b) determining whether the binding partner effects an activity of the polypeptide.

30

21. The gene corresponding to the cDNA sequence of SEQ ID NO:Y.
22. A method of identifying an activity in a biological assay, wherein the method comprises:
- 5 (a) expressing SEQ ID NO:X in a cell;
- (b) isolating the supernatant;
- (c) detecting an activity in a biological assay; and
- (d) identifying the protein in the supernatant having the activity.
- 10 23. The product produced by the method of claim 20.

SEQUENCE LISTING

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Steve Ruben

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<210> 9

<211> 1101

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (983)

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<220>

<221> misc feature

<222> (1055)

<223> n equals a,t,g, or c

<400> 9

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<210> 10

<211> 1373

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1373)

<223> n equals a,t,g, or c

<400> 10

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<210> 11

<211> 3804

<212> DNA

<213> Homo sapiens

<400> 11

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<210> 12

<211> 2157

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (806)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (846)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2150)

<223> n equals a,t,g, or c

<400> 12

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<210> 13

<211> 1117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1102)

<223> n equals a,t,g, or c

<400> 13

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<210> 14

<211> 885
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (869)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (884)
 <223> n equals a,t,g, or c

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<210> 15
 <211> 1024
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 <213> Homo sapiens

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<220>
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 <222> (1005)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1012)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1019)
 <223> n equals a,t,g, or c

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 tcagttcctc ttcagtattg catggcatgg tttttaagaa ggaaaccgaa gtgatgtaac 780
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 aactaaggga acagtgttga taaagactgc tgaagrattg atgaatttta gtaagggagr 900
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 aaat 1024

<210> 16
 <211> 545
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (40)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

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 <222> (403)
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<220>
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 <222> (476)
 <223> n equals a,t,g, or c

<220>

<221> misc feature
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 tggatgagct ggtcccgcca ggctccaggg aaggggctgg agtggggttg ccgtattaaa 360
 agcaaaactg atggtgggac aacagactac gctgcacccg tgnaaaggca gattcaccat 420
 ctcaagagat gattcaaaaa acacgytgta tytgcaaatg aacagcctga aaaccngagg 480
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 cttttt 545

<210> 17
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 <212> DNA
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<220>
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 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (613)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (616)
 <223> n equals a,t,g, or c

<400> 17
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 aggtgaacaa ggatgacatc cagaagatga acccgcccaa gttctccaag gtggaggaca 480
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 ccgaggtggg ggnngnggcg ggt 623

<210> 18
 <211> 559

<212> DNA
<213> Homo sapiens

<220>
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<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (531)
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<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<400> 18
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attagtaatt ttaaaatgag grtgggaatt aactaacaga actgatagga agtgттаaca 180
tacaacaggg gagtctaaga tggcttccaa ttttactta gaggggtaag ggtaccatta 240
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gcgngcnacg gtattngga 559

<210> 19
<211> 1355
<212> DNA
<213> Homo sapiens

<220>
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<222> (55)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (1045)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1355)
 <223> n equals a,t,g, or c

<400> 19
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 tccccagcca ccaactctgat actcctacca cccttgccag ccatagcacc aagactgatg 240
 ccagtagcac tcaccatagc acggtacctc ctctcacctc ctccaatcac agcacttctc 300
 cccagttgtc tactgggggtc tctttctttt tcctgtcttt tcacatttca aacctccagt 360
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaan 1355

<210> 20
 <211> 1280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1043)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1162)
 <223> n equals a,t,g, or c

<400> 20
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gggacacctt tgtgaatgcc tctcggaccc tgtacagcag cagccccaga gtcctaagca 240
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<210> 21

<211> 1191

<212> DNA

<213> Homo sapiens

<400> 21

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ttgaagcaca aacatattct catttttatt ctcccaatac cttgaagggt ttcttctgca 180
catgtatttg tttgatctgc cttttgtgcy tgggggtggga gttaggtagg aatcttaag 240
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ccacctttgt gatagtgaag cttccacatg ctactcagc cccttctgct ctctcttctt 360
ctctactgtg catgtcggct tgtacttttg ccagtttctc taaagacaca accagagtgg 420
ggtggctgtg tgtgcacaac ttcaacttta catgtggggc tgagtcccta tgttgtatat 480
ccttgtgcaa aagcacataa tgtaattgc tatagctttt aaaaaataa ttaatagttt 540
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taaaccctct atatatgtac acttatttat aactatgaac gcctgaacta ggatagaaat 660
gcattgtgta tattacaaaa cataacaaaa ataatagggg tagggagggt cagatgttgg 720
tcaaaggata taaacctgca gttctatgat gaataagttc tggacatctg gaatacagca 780
tggtgactat acttagtaat actatattgt acacttgaag cttactgaaa gagtaaatct 840
caagtgttct caccacacaa acccaaagggt aactatgttc tcaccacaca aacccaaagg 900
gaactatgta ttaattagct tgattgtggg aaccatttca caatgtatac atttgccaaa 960
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<210> 22

<211> 853

<212> DNA

<213> Homo sapiens

<400> 22

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cttgagggat ttggaactag ctctgggttt ggatgcagca ccacaggggc ctccacattt 180
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gtgtccaatc ctgcctctgc aggttttggg acaggaggac aactccttca gttgaagaaa 360
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gtttgccata ctgaacawct tttttcttgt ggaatttaaa gtccagctgt gttttctttt 600
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accattaacc taaaacttac tatttaacct agtgtttttg ttgatgaggt ttacattatg 720
tgaatacatg cacatttggt tcttatacag gtgggtgtgaa ctctagggcc tatactagaa 780
tcaatttggt ccttggttaa gcccttttga attatactgc agggcatctt gtgaatatgt 840
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<210> 23

<211> 474

<212> DNA

<213> Homo sapiens

<400> 23

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tcctctcgct tccctgccgg gcaggcgcca tggcggaagc tcggcgacgg gcgcctgcgg 180
agaggcgatg gcagcgcggg aaggctcctc gggcccgggc ggcttgactc tgggcccggg 240
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gacgggcttc tccggcatga agggctgagg ctgcaaggtc ccgcagaagg gctgctcaaa 360
ctcctggcgg gactgamcgg gccggacktk cggccccgct gggccggggc ctkgtkgtk 420
gccargaara agcgtcccag gaagccggcc tgccggcaag agcgggcccc agcc 474
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<210> 24

<211> 2280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 24

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gcatcaagag cttcaagaac aaggggcgcg atgtggaaac aatgcgaaga catagaaatg 180
aagtgcaggt ggaactgcgg aagaacaaaa gagatgaaca cttattgaaa aagagaaatg 240
ttccccaaga agaaagtcta gaagattcag atgttgatgc tgattttaaa gcacaaaatg 300
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taaccctaga agctatattg cagaatgcc aagtgataa cccagtgggc caattgagtg 360
ctgtccaggc agcaagaaaa ctgttatcca gtgacagaaa tccaccgatt gatgacttaa 420
taaaatctgg gattttacca attctagtca aatgtctaga aagggatgat aatccttcat 480
tacagtttga agctgcttgg gcattaacta acatagcatc aggracttct gcacagactc 540
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<210> 25

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 25

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atggcaggct ctgaagagct ggggctccgg gaagacacgc tgagggctct agctgccttc 180
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aaccagaagc tggcctcgga ccccgccctg cgcacaagct ggtccgctg tcctccgact 600
ctttcgcccc cctggtggag ctgttctgta gccgggatga cagctctcgc ccaagccgag 660

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catgccccgg gcccccgct ccttccccgg agcccttggc ccgcctggcc ctagccatgg 720
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1061

<210> 26

<211> 1572

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1491)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1555)

<223> n equals a,t,g, or c

<400> 26

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tacaagagga cccacctgtg ggtgtcagtg gcgcaccatc tgaaaacaac atcatgcagt 240
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taatagaatt tctgaagaa tatccaaata aaccaccaac tgtaggttt ttatccaaaa 360
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ggagtccaac atatgatgta tcttctatct taacatcaat tcagtctctg ctggatgaac 480
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aatatgagaa aagagtttcg gccattgttg aacaaagctg gaatgattca taatagacaa 600
ctgggtctgtt aatctttttc atcattgttg tgtataattt acctctcatt agaaaggcta 660
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taatgttggg gtggagtttt catgacagaa tatacacatt ttgtaaatct gtacttttttt 900
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ggggggggga atcttggggt gttaacnttt aaattatttt gggaaaattt acccntttta 1560
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<210> 27

<211> 2005

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1977)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1978)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1979)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1986)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1988)

<223> n equals a,t,g, or c

<400> 27

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cgctccgcgc gcctagcgct gttcccgggt gtggcgctgc ttcttgccgc ggcgcgcctc 180
gccgtgcct ccgacgtgct agaactcacg gacgacaact tcgagagtcg catctccgac 240
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aaggttgatt gactgcca cactaacacc tgtaataaat atggagtcag tggatatcca 420
accctgaaga tatttagaga tgggaagaa gcaggtgctt atgatggacc taggactgct 480
gatggaattg tcagccactt gaagaagcag gcaggaccag cttcagtgcc tctcaggact 540
gaggaagaat ttaagaaatt cattaagtgt aaagatgcct ctatagtagg ttttttcgat 600
gattcattca gtgaggtca ctccgagttc ctaaaagcag ccagcaactt gagggataac 660
taccgatttg cacatacgaa tgttgagtct ctggtgaacg agtatgatga taatggagag 720
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gttgggggaa atgttgtggg ggtgggggtg agttgggggt attttctaatt ttttttgtta 1920
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gggggncncc cagtccatt cgccc 2005

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<210> 28

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 28

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acacgtacga cgagtacaaa aagggttcc tggaccaggc atctgggagt gcagtgtgc 180
tgctcaggcc cggagaccgg tgttcctcca gatgccctca gaacaggctg caggactgta 240

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tgccgggcag tatgtccact cctccttttc aggatattta ttgtatccca tgtaaaaaca 300
aaaaaacaaa aaacaaagaa aagaaagaga ttttatagaa gaaaatgaca caccacaaaa 360
tccaaatgaa aaacataatt gcttcaaaac acttacacag ttggaaagtt atatgtaagt 420
gaaaatttgg accattgtgt acaaataaaa actaagatgc atgtttaata ctccacacag 480
cagcctgtaa ttgcgaatga tgggatagag ttatgtatca agtactgaca cttggttgta 540
cccactggaa tcatatttagc tgttttatgt tatatgcttc cacagtaacc tgcttattca 600
gatcagtcaa aatatatcag tatgaaagat catagctaata gaaaggcact cactcatatt 660
gtttacttta aaatatattat aaatatgcct taaagaaata caaatgataa caattacata 720
ccgtatttac ttgcttaatt tcctctgtat ttgtgtagat actttgacat ggaatatatg 780
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tatcagttat gcttatatag cattaaaaat tctcctcctt tgactacaca cacaaccaca 1320
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tctgttttagc atgtatgcaa actggata                                     1408
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<210> 29

<211> 917

<212> DNA

<213> Homo sapiens

<400> 29

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ggaccatgtg cgcgtcccgg gacgactggc gctgtgcgt ccatgcacga kttttccgcg 180
aaggacatcg acgggcacat ggttaacctg gacaagtacc ggggcttcgt gtgcatcgtc 240
accaacgtgg cctcccagtg aggcaagacc gaagtaaact aactcagct cgtcgacctg 300
cacgcccgat acgctgagtg tggtttgccg atcctggcct tcccgtgtaa ccagttccgg 360
aagcaggagc caggagagta cgaagagatc aaagagttcg ccgcgggcta caacgtcaaa 420
ttcgatatgt tcagcaagat ctgcgtgaac ggggacgacg cccacccgct gtggaagtgg 480
atgaagatcc aacccaaggg caagggcacg ctgggaaatg ccatcaagtg gaacttcacc 540
aagttcctca tcgacaagaa cggctgcgtg gtgaagcgct acggacccat ggaggagccc 600
ctggtgatag agaaggacct gccccactat ttctagctcc acaagtgtgt ggccccgccc 660
gagcccctgc ccacgccty ggagccttcc accggcactc atgacggcct gcctgcaaac 720
ctgctggtgg ggagacccg aaaatccagc gtgcaccccg ccggaggaag gtcccatggc 780
ctgctgggct tggctcggcg cccccacccc tggctacctt gtgggaataa acagacaaat 840
tagcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaa                                     917
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<210> 30

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (568)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (575)
<223> n equals a,t,g, or c

<400> 30
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ggtgactcac atctgtaatc ccagcacttt gggaggccaa ggcaggcaga acacttgaag 120
gagttcaaga ccagcgtggc caacgtgggtg aaccctgtct ctactaaaaa tacaaaaatt 180
gttttagctct gtttttcata atagaaatag aaaaggtaaa attgcttttc ttctgaaaag 240
aacaagtatt gttcatccaa gaagggtttt tgtgactgaa tcagcagtcg ctgccctagt 300
catagctgtg cttcagaaac ctcagcatga ttagtggtkg agcmmaacaa ggtagcaaag 360
caaatwcwgt ttttgaattt ctatctgttg cttgaactat tttgtaataa ttaaaactttg 420
gatgttgaga aatcacaact ttattggtac acttcattgc aacttgaaat tccatgggtc 480
ttaaagttag attggaattc naatgggagg cctttaaaaa gtaattccca accnttaagg 540
ttaaaaccca ggaaattggg gccaatcnaa aaccngg 577

<210> 31
<211> 2059
<212> DNA
<213> Homo sapiens

<400> 31
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actccttttt gcagtggaca caggactata tttctctgtg aagacaaaca ttcgaagctc 180
aacaagagac tggaaggacc ataaatttaa atggagaaag gaccctcaag acaaatgacc 240
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tgcaacccca tcatcctcag gcctctctac aagcagcagg aaacatagaa ctacagacca 360
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cttcaagcag ggaagcccca gtgagtagct gcattcctag aaattgaagt ttcagrgcta 480
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gagctgtccc cttgggtact tggcctcaac cgcaccaat gactgtggct gtaccacaac 720
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gtgcaaatgc tccccagga agtgcagcaa gtgaggctgc tgcagctgca tgggtgcctg 1920
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aaaaaaaaaa aaaaaaaaaa                                     2059

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<210> 32

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

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tctagaggat ccaagcttac gtacgcgtgc atgcgacgtc atagctcttc tatagtgtca 180
cctaaattca attcaactggc cgtcgtttta caacgtcgtg actgggaaaa ccctggcggtt 240
acccaactta atcgccctgc agcacatccc ctttcgccca gctggcgtaa tagcgaagag 300
gcccgcaccg attcgccctt tcccaacagt tgcgcancgt gaatggcgaa tggggacgcg 360
ccctgtatgg gcgcgttnaa gcgcggcggg tgtgggtggtt acgcgcagtg gacccgctac 420
acttgccagc gccctagcgc ccgctccttt cgctttcttc ccttcctttc tcgccacgtt 480
cgccggccttt ccccttnaag ctctaaatcg gtgggctccc tttagggtgc ctatttngtg 540
ctttanggt 549

<210> 33

<211> 841

<212> DNA

<213> Homo sapiens

<400> 33
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gcagccccac agaccatggt catgccaggt ggttgacta caatcccaga gtcagacctt 180
gaagaaagat cagtagaaca agactctaca gaactgttta ccaaccacag acatctcact 240
gcagagacac ccaggcctgt ttcacccctc caaggagtct cgggaataatt ccaagtagag 300
ttgtttgggt gagaggaaca tccccatctc aaggccgaac ctgtgtgaac ctcatgccaa 360
gcacagatat arggctggcg cagggtgcttc cyaaagctya ccttcctgga gatgacatgc 420
atagaaagag gggttgggac tttttacttc actaggagaa cttgtaacac catggggaag 480
tcagctgaaa cttgtcttgt tttgccagga aagggaagtag ttgccttttg tcatccatct 540
gctaatagtc acagaatata gtgaaatgac atagtttttg gttagatttt ataatgcaa 600
gattcagatc caaaataatt tcatacccca ttttttcaca gaattcttat atagtaaatg 660
tatcaagttt aataaagcat ctcatgttca aataatatct tggattttat ttataattag 720
agggatttat gagtgattgc tctacattat ttcttcaaag gaaaggaaag gaattgaaga 780
ctttgctact ctctggtaag acttgaatgt gattatttta taaataaaaag aaccactatg 840
a 841

<210> 34

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc. feature

<222> (58)

<223> n equals a,t,g, or c

<400> 34

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agcggagcca acatgccagt ggcccggagc tgggtttgtc gcaaaactta tgtgaccccg 180
cggagaccct tcgagaaatc tcgtctcgac caagagctga agctgacggc cgagtatggg 240
ctccggaaca aacgtgaggt ctggagggtc aaattttacc tggccaagat ccgcaaggcc 300
gcccgggaac tgctgacgct tgatgagaag gacccacggc gtctgttcga aggcaacgcc 360
ctgctgcggc ggctgggtcc cattgggtgt ctggatgagg gcaagatgaa gctggattac 420
atcctgggcc tgaagataga ggattttcta gagagacgcc tgcagaccga ggtcttcaag 480
ctgggcttgg ccaagtccat ccaccacgct cgcgtgctga tccgccagcg ccatatcagg 540
gtccgcaagc aggtggtgaa catcccgctc ttcatgttgc gcctggattc ccagaagcac 600
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aatgccaaga agggccaggg tggggctggg gctggagacg acgaggagga ggattaagtc 720
cacctgtccc tcctgggctg ctggattgtc tcgttttctt gccaaataaa caggatcagc 780
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aaaaaaaaaa aaaaaaaaaa ttt                                     863
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<210> 35

<211> 1230

<212> DNA

<213> Homo sapiens

<400> 35

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tcaggcagct gcagagcttc aacagtactg tatgcagaat gcctgcaagg atgccctgct 180
ggtgggtggt ccagctggaa gtaaccctt ccgggagcct agatcctgtg ctttactctg 240
aagactctag gagagaagtt tgctgaggaa tgccttcaag cacaaagtga tgaatgactg 300
ccttcaagtc tcaagaaaac acttttccct aacttttaga gatatttcag ccctttcctg 360
tggcctggtc ctatagccaa aatcacagat attcatgagt ttctacttga gtgagaaaac 420
tgggtgaagg aatagaattt taaatagtaa taactgcttg tttttttgt gcaagtactt 480
ttatacataa gataaacaac aaccttacca ccaaacatac caaatgcac ctctttcata 540
agtgagttac taagatttct atacctggaa tatcatgtat gtttcattta ctggatgttt 600
acattttagg aaggaaaata gtttgtttta tttaaacaac tgaatactta taaactgttg 660
ttcctggaag ttattttatt cataaaaaat ttgttctttt ctcatgaatt tataattcct 720
aatgaagac cagaaagtac aaattgctgg gaggaagaat aggcctttatt aatcaactga 780
tgtcttgatt tttctaaatg ggaagattgc tttattttta acactaatta tgggagcaga 840
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ttcacaagtg ttttacttcg acgatgtgcc tttgatttaa tttgggacac ttttttagaa 1140
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attaatcatt tttctatgac agcaaaaaaa 1230

<210> 36
<211> 640
<212> DNA
<213> Homo sapiens

<400> 36
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cgggtcgacc cagcgctccg gctgtctgaa gatagatcgc catcatgaac gacaccgtaa 120
ctatccgcac tagaaagttc atgaccaacc gactacttca gaggaaacaa atggtcattg 180
atgtccttca ccccggaag gcgacagtgc ctaagacaga aattcgggaa aaactagcca 240
aaatgtacaa gaccacaccg gatgtcatct ttgtatttgg attcagaact cathttgggtg 300
gtggcaagac aactggcttt ggcattgatt atgattccct ggattatgca aagaaaaatg 360
aacccaaaca tagacttgca agacatggcc tgtatgagaa gaaaaagacc tcaagaaagc 420
aacgaaagga acgcaagaac agaataaaga aagtcagggg gactgcaaag gccaatgttg 480
gtgctggcaa aaagccgaag gagtaaaggt gctgcaatga tgtagctgt ggccactgtg 540
gatttttcgc aagaacatta ataaactaaa aacttcaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 640

<210> 37
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
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<222> (556)
<223> n equals a,t,g, or c

<220>
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<222> (558)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (590)
<223> n equals a,t,g, or c

<400> 37
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gtccggcagc gccagcccta cactcgcccg cgccatggcc tctgtctccg agctcgccctg 180
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<210> 38
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 38
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gggttttttc tttgtattgc tggt 624

<210> 39
<211> 1029
<212> DNA
<213> Homo sapiens

<400> 39
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<210> 40

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<400> 40

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gaaaactgcg agccagcatt acccccggga ccattctgat catcctcact ggacgccaca 180
ggggcaaggt gagagtacct gtgcttggg cgccttcactg cagctgcctg gggcgcttg 240
tggcaatgcg ttgacagct aggtgtactt ttcctttatt tacctatgtt tggggcaagg 300
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tacatataca tgtagaaatt tccctacccm aatttagatg cctgtgawtt tawgaatcag 540
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<210> 41
 <211> 1051
 <212> DNA
 <213> Homo sapiens

<400> 41
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 tgtggctgct ggtgaaaagc ttctccgaga gtggaatcaa ctatgaaatt ataatcatag 180
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<210> 42
 <211> 2192
 <212> DNA
 <213> Homo sapiens

<400> 42
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actcgggggg ggcccgttac caattggcct aa
2192

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<210> 43

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 43

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catggtggct gaaaagcggc tcacccaga tggctgtggg gtcaagtaca tccccagtcg 180
tggccctctg gacaagtggc gggccctgca ctcatgaggg cttccaatgt gctgcccccc 240
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaa aag 353

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<210> 44

<211> 3490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (782)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2298)

<223> n equals a,t,g, or c

<400> 44

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caccagagat ctcagatcag aatcagagat ctcagagggg aataagttca tcctcatggg 180
atgggtgaggg gcakgaaagc ggctgggctc ttggacacct ggttctcaga gaacctgtg 240
atgatcacc cagccccagg ctgtcttagc ccctggagtt cagaagtcct ctctgtaaag 300
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<210> 45

<211> 781

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 45

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<210> 46

<211> 1431

<212> DNA

<213> Homo sapiens

<400> 46

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gatcagcggg gagccccctat cctaccttca atccatcctc ggatgtcgct gccttgcata 240
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<210> 47

<211> 1913

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1896)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1905)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (1907)
 <223> n equals a,t,g, or c

 <400> 47
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 ctcatgcct gtccctgggat ttggcaccta tgcgcctgca gaggttccta aaagtaaagc 180
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 gaagagagaa gacatattct acacttcaaa gctttggwgc aattcccatc gaccagagtt 360
 ggtccgacca gccttggaaa ggtcactgaa aaatcttcaa ttggattatg ttgacctcta 420
 ycttattcat ttccagtggt ctgtaaagcc aggtgaggaa gtgatcccaa aagatgaaaa 480
 tggaaaaata ctatttgaca cagtggatct ctgtgccacr tgggaggccg tggagaagt 540
 taaagatgca ggattggcca agtccatcgg ggtgtccaac ttcaaccrca ggcagctgga 600
 gatgatcctc aacaagccag ggctcaagta caagcctgtc tgcaaccagg tggaatgtca 660
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 tgcctatagt gctctgggat ccacaycgaga agaaccatgg gtggaccoga actccccggt 780
 gctcttggag gacccagtc tttgtgcctt ggcaaaaaag cacaagcgaa cccagccct 840
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 tgttcataaa agaaaacttt ccacattgtt ttaacaaacc ccacagctgg agagtccagg 1800
 cctggaatct ttggatgtgt gccagttca cagattggac cctattgggt tgtggtgggg 1860
 ccagggcctc caaagacntc attggactaa ttcacnttcc cccgnanagc ccc 1913

 <210> 48
 <211> 1761
 <212> DNA
 <213> Homo sapiens

 <400> 48
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 aggccgggggt ccacttccgg ccaggctatg agtatggccc cggggcccgat gacctgcact 120
 acagcatcta tggcccagat gggggccccc tctacaacta cctggggccc gaggaacacc 180

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tccctgagcc tgccttcccc aacacagccg gtcactcagc ggaccgcaca cccatccttg 240
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cagccggctt cgaagggtt caggcggagg agtgcggcat cctgaacggc tgtgagaatg 360
gccgtgtgtg gcgcgtgcgg gagggctaca cctgtgactg ttttgagggc ttccagctgg 420
atgcggccca catggcctgc gtagatgtga atgagtgtga tgacttgaac gggcctgctg 480
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cgggatatgt ggctgaggca gggccccccc actgcactgc caaggagtag cagtcagggg 600
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tcatctctcc cagcttagcc tctggctgta agcttcgggtc attgcctcca tgcccttgct 780
tggtcaagc accaccaatc gctttaatgc ttcagccacc gcatgaggcc ctgtccacca 840
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tgatgtgcta aaagtaaaaa gtctattttc cagtgtgggtc ttgttcagaa gcagccagat 1560
ttccaatgtt gtttttcccc tccactcaga aaccctgccc ctttcccttc agaaaacgat 1620
ggcaggcatt cctctgagtt tacaagcaga gactcactcc aaccctaaact agctgggagt 1680
tcagaacat ggtggaataa agaaatgtgc atctggtcaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa g
1761

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<210> 49

<211> 956

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 49

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cgccgcccgc ccgcaaactc tegtccccgg ccctgcctcg ccccgccctc cgccaccgcc 120
tcggcccgcga gagcttgccc cctccccacc cgcagacatg tccgagtcca agagcggccc 180
cgagtatgct tcgtttttcg ccgtcatggg cgctcggcc gccatggctt tcagcgcctt 240
gggcgtgcc tatggcacag ccaagagcgg taccggcatt gcggccatgt ctgtcatgct 300
gccggagcag atcatgaagt ccatcatccc agtgggtcatg gctggcatca tngycatcta 360
cggcctggtg gtggcagtc tcatcgccaa ctccctgaat gacgacatca gcctctacaa 420

```

sing


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gagcttcctc cagctgggcg ccggcctgag cgtgggcctg agcggcctgg cagccggctt 480
tgccatcggc atcgtggggg acgctggcgt gcggggcaac gccagcagc cccgactatt 540
cgtgggcatg atcctgattc tcattctcgc cgagggtgctc ggccctctacg gtctcatcgt 600
cgccctcatc ctctccacaa agtagaccct ctccgagccc accagccaca gaatattatg 660
traagaccac cctcctcat cgccctcca ggcccccggc gccccacccc ctagagtgt 720
ctgtgtatgc ggatgattta gaattgtcat ttctctttac tggatgttta ttataaaaga 780
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tagagtgtcg ccttgtgggt tcctgttgct gagacttcct ggatggagcc gccctcaccg 900
wmcgkcccgt ggccctgcgc ggagctgtgt ccaataaagt tcttgatgt gaaaaa 956

```

<210> 50

<211> 563

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<400> 50

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cggacgcgtg ggcgccctcc gaatccagag aggcgctgct gacaccgccg ccacaccgcc 60
gccacaccgc cgctgcctca gtcattgccga agcagcagtt ctctgtggac atgacctgtg 120
gaggctgtgc tgaagctgtc tctcgggtcc tcaataagct tggaggagtt aagtatgaca 180
ttgacctgcc caacaagaag gtctgcattg aatctgagca cagcatggac actctgcttg 240
caaccctgaa gaaaacagga aagactgttt cctaccttgg ccttgagtag caggggcctg 300
gtccccacag cccacaggat ggaccaaagg gggcaggatg ctgacccctc cgctggcttc 360
cagacagacc tgggacttgg cagtcattgcc gggatgatgt gttcctgcgg agaccctcag 420
ttgtcctatt ccttcctagc ttccctgcaa taaaatcaag ctgcttttgt tggaaaaaaa 480
aaaaaaaaa gggggcgtct aaaaaccaan ttatttcent gatgaaatcn acctcttgt 540
tccattcat ccggcctnaa aaa 563

```

<210> 51

<211> 3215

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (3196)
<223> n equals a,t,g, or c

<400> 51
gcctcgggtg ggggtgggagc ggggggggaca gtgccccggg aacccgggtg gtcacacaca 60
cgactgcgc ctgtcagtag tggacattgt aatccagtcg gcttggttctt gcagcattcc 120
cgctcccttc cctccatagc cacgctccaa accccagggt agccatggcc gggtaaagca 180
agggccattt agattaggaa ggtttttaag atccgcaatg tggagcagca gccactgcac 240
aggaggaggt gacaaaccat ttccaacagc aacacagcca ctaaaacaca aaaaggggga 300
ttgggcggaa agtgagagcc agcagcaaaa actacatttt gcaacttggt ggtgtggatc 360
tattggctga tctatgcctt tcaactagaa aattctaatt attggcaagt cacgttggtt 420
tcagggtccag agtagtttct ttctgtctgc aacagactca taccacactt 480
acaattaagg tcaagcccag aaagtataaa gtgcagggag gaaaagtga agtccattat 540
gtaatagtga cagcaaagg accaggggag aggcattgcc ttctctgccc acagtcttct 600
cgtgtgattg tctttgaatc tgaatcagcc agtctcagat gcccctaaagt ttcggttctt 660
atgagcccg ggcatgatct gatccccaag acatgtggag gggcagcctg tgcctgcctt 720
tgtgtcagaa aaaggaaacc acagtgcagc tgagagagac ggcgattttc gggtgcagaa 780
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gtccctctgg gccaatgctt ataccagtg aggatgctgc agtgaggctg taaagtggcc 1620
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ttcctaatta tcgctagggc caagggtgga ttgttaaagc ttacartaa tcattctgga 2520
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tcttagaaga tagcatggga ggtgaggatt ccaaaaacat tttattttta aaatatcctg 2640

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tgtaacactt ggctcttggt acctgtgggt tagcatcaag ttctccccag ggtagaattc 2700
aatcagagct ccagtttgca tttggatgtg taaattacag taatcccatt tcccaaacct 2760
aaaatctgtt ttctcatca gactctgagt aactggttgc tgtgtcataa cttcatagat 2820
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atactgtgaa aatgttttac attccatttc atttgtgttg tttttttaac tgcattttac 3060
cagatgtttt gatgttatcg cttatgttaa tagtaattcc cgtacgtgtt cattttattt 3120
tcatgctttt tcagccatgt atcaatattc acttgactaa aatcactcaa ttaatcaawa 3180
aaaaaaaaaa aaaccncggg ggggggcccc gaacc 3215

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<210> 52
<211> 626
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc feature
<222> (571)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (572)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

```

```

<400> 52
cagtttgtgt attgcggcaa gaaggcccag ctcaacattg gcaatgtgct cctgtgggc 60
accatgcctg agggtaaat cgtgtgctgc ctggaggaga agcctggaga ccgtggcaag 120
ctggcccggg catcaggga ctatgccacc gttatctccc acaaccctga gaccaagaag 180
acccgtgtga agctgccctc cggctccaag aaggttatct cctcagccaa cagagctgtg 240
gttggtgtgg tggctggagg tggccgaatt gacaaaccca tcttgaagge tggccgggcg 300
taccacaaat ataaggcaaa gaggaactgc tggccacgag tacggggtgt ggccatgaat 360
cctgtggagc atccttttgg aggtggcaac caccagcaca tcggcaagcc ctccaccatc 420
cgcagagatg ccctgctggt ccgcaaagtg ggtctcattg ctgcccggcg gactggacgt 480
ctccggggaa ccaagactgt gcaggagaaa gagaactagt gctgaggggc tcaataaagt 540
ttgtgtttat gccaaaaaaa aaaaaaaaaa nnnngggggc cgctttarag rwtccctcaa 600
ggggccaact tacccttnca tgcaaa 626

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```

<210> 53
<211> 920

```

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (621)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (725)
<223> n equals a,t,g, or c

<400> 53
atgaggggctc ggctacagca agaagtagag gagcagctca aaaagaaatg ttctactctg 60
ctctgctact atgatcccaa ttcagatgct gacagtgaag ccgtgaaggc agcaaagggtg 120
tggaactctg cagagtcctg gtgggtgagc agcagcagtg ccasgatgcc aagagccagc 180
agaaggagca gatgttgctg ctggagaaka agagtgcctg ttactcccag gtgcttctcc 240
gctgcctcac tttgctgcag aggcttcttc aagaacaccg gctgaagact caatccgagc 300
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caagacaggc cctgaactcc tatgaggctc ttggggagga gtttgacagg ctggtgaaag 540
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ggaanattstt acgcttgaaa cactgcagtc atttaggcac tctcctgggt tctctttatt 780
ttttatgact gggcctcttc tgaaaaatct agcaaggaga tttatataat ttttatgcat 840
agctgtgtgt cagtgtcagc cctgtattgt atttgattat ctcctgaata aagttatgat 900
attawaaaaa aaaaaaaaaa 920

<210> 54
<211> 1090
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1024)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1034)
<223> n equals a,t,g, or c

<400> 54

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tctctggagt gactttttct cctcgaattg aaacaagtct atggcaaaaag aagctgcatt 120
tttttcacaa aaggggaagat ggtaacaatg gtcacttcaa acttttgggc taaattatat 180
gtacacagaa atgttcaaaa tcatagtttt aatgtgtttt gaaaaggcca cacaattata 240
ctttatcttt tcttaataat cctgcaaatc tctgcoctgg aatccgaaat ctgaaaatgt 300
actggcttga acaaaatttg ttttgtgtgt tagagttata aatcattaat ctttatttcg 360
gggtggtttac gtttatgccg gttcctttat atttaaattt ctgtttttat atattttgaa 420
tgtctttata gatttcttta aatttcctta tagaaccatt aatagaaaat cattacattt 480
aaaatatacc ttacagcaaa agcatccaaa taagtatagg gtttatgtcc ttatttttct 540
ttcagctgaa tacgaatgaa cacagtgggt gaatttctga aggggaagtga tgaaattata 600
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tacactaatt ttcagtatat tactgttaaa ttaccaacac aaggcaattt atttgaaaga 720
ttccgtttat cctgccattg ctttggaaaag cagcaggaaa cgaaatcctt tgacttgtat 780
cagcttctgc agagcatctt tgttttctt tgtcctttgt ttcctacctt ttgaatcaga 840
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aattgcatga agtggattga tcatgagcaa atgatgtgct tatttctccc tactgttgga 960
atatctttga acttgcgtgt ttcaatatgg gcagcacaaa ggtgagagat acatatattt 1020
agtngtatgt attnctctta tacattagat acctatattt aaatgaaagg gccaatattgt 1080
aaacatatatac 1090

<210> 55

<211> 1464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (766)

<223> n equals a,t,g, or c

<400> 55

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gacgtctca gctctcggcg cacggcccag cttccttcaa aatgtctact gttcacgaaa 120
tctgtgcaa gctcagcttg gaggggtgac actctacacc cccaagtga tatgggtctg 180
tcaaagccta tactaacttt gatgctgagc gggatgctt gaacattgaa acagccatca 240
agaccaaagg tgtggatgag gtcaccattg tcaacatttt gaccaaccgc agcaatgcac 300
agagacagga tattgccttc gcctaccaga gaaggaccaa aaaggaaact gcatcagcac 360
tgaagtccagc cttatctggc cacctggaga cgggtatttt gggcctattg aagacacctg 420
ctcagtatga cgcttctgag ctaaaagctt ccatgaaggg gctgggaacc gacgaggact 480
ctctcattga gatcatctgc tccagaacca accaggagct gcaggaaatt aacagagtct 540
acaaggaaat gtacaagact gatctggaga aggacattat ttcggacaca tctggtgact 600
tccgcaagct gatggttgcc ctggcaaaagg gtagaagagc agaggatggc tctgtcattg 660
attatgaact gattgaccaa gatgctcggg atctctatga cgctggagtg aagaggaaa 720
gaactgatgt tccaagtgg atcagcatca tgaccgagcg gagtgncccc acctccagaa 780
agtatttgat aggtacaaga gttacagccc ttatgacatg ttggaaagca tcaggaaa 840
ggttaaagga gacctgaaa atgctttcct gaacctgggt cagtgcattc agaacaagcc 900
cctgtatttt gctgatcggc tgtatgactc catgaagggc aaggggacgc gagataaggt 960
cctgatcaga atcatggtct cccgcagtga agtggacatg ttgaaaatta ggtctgaatt 1020
caagagaaaag tacggcaagt cctgtacta ttatatccag caagacacta agggcgacta 1080
ccagaaagcg ctgctgtacc tgtgtggtgg agatgactga agcccacac ggcctgagcg 1140

```

tccagaaatg gtgctcacca tgcttccagc taacaggctc agaaaaccag cttgcgaata 1200
acagtccccg tggccatccc tgtgaggggtg acgttagcat taccaccaac ctcattttag 1260
ttgcctaagc attgcctggc cttcctgtct agtctctcct gtaagccaaa gaaatgaaca 1320
ttccaaggag ttggaagtga agtctatgat gtgaaacact ttgcctcctg tgtactgtgt 1380
cataaacaga tgaataaact gaatttgtac tttaraaaaa aaaaaaaaaa aactyrgggg 1440
ggggcccgka cccattggcc ttag                                     1464

```

<210> 56

<211> 985

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (962)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (973)

<223> n equals a,t,g, or c

<400> 56

```

agaagttgct agtgttcaat gcagctgggg tgaaacccca ggggcaaggt ggctggcttt 60
gatctggacg ggacgctcat caccacacgc tctgggaagg tctttccac tggccccagt 120
gactggagga tcttgtaccc agagattccc cgtaagctcc gagagctgga agccgagggc 180
tacaagctgg tgatcttcac caaccagatg agcatcgggc gcgggaagct gccagccgag 240
gagttcaagg ccaaggtgga ggctgtgggtg gagaagctgg ggggtcccctt ccaggtgctg 300
gtggccacgc acgcaggctt gtaccggaag ccggtgacgg gcatgtggga ccatctgcag 360
gagcaggcca acgacggcac gcccatatcc atcggggaca gcatctttgt gggagacgca 420
gccggacgcc cggccaactg ggccccgggg cggaagaaga aagacttctc ctgcgccgat 480
cgctgtttg ccctcaacct tggcctgccc ttcgccacgc ctgaggagtt ctttctcaag 540
tggccagcag ccggtctcga gctcccagcc tttgatccga ggactgtctc ccgctcaggg 600
cctctctgcc tccccgagtc cagggccctc ctgagcgcca cccggangtg gttgtcgag 660
tgggattccc tggggccggg aagtcacact ttctcaagaa gcacctcgtg tcggccggat 720
atgtccacgt gaacagggac acgctaggct cctggcagcg ctgtgtgacc acgtgtgara 780
cagccctgaa gcaagggaaa cgggtcgcca tcgacaacac aaaccagac gccgcgagcc 840
gcgccaggtg cgtccartgt gcccgagccg cgggngtacc cctgccgctg cttcctcttc 900
accgccactc tggagcaggc gcgccacaac aaccgggtga gcccgcttca gcccgggaca 960
cnccccgggg atngcacccc ctgga                                     985

```

```

<210> 57
<211> 1246
<212> DNA
<213> Homo sapiens

<400> 57
ctcagagtcg cgaggccgga cgcagcgcg cgcgccccac tcgccccagc cgccgccatg 60
aaggccgtgg tgcagcgcg caccggggcc agcgtcacag ttggaggaga gcagattagt 120
gccattggaa ggggcatatg tgtgttgctg ggtatttccc ttggaggata gcagaaggaa 180
ctggaacaca tgggtccgaa gattctaaac ctgctgtgat ttggaggatga gagtgggaag 240
cactggtcga agagtgtgat ggacaaacag tacgagattc tgtgtgtcag ccagtttacc 300
ctccagtgtg tcctgaaggg aaacaagcct gatttccacc tagcaatgcc cacggagcag 360
gcagagggct tctacaacag cttcctggag cagctgcgta aaacatacag gccggagctt 420
atcaaagatg gcaagtgttg ggcctacatg caggtgcaca ttcagaatga tgggcctgtg 480
accatagagc tggaatcgcc agctcccggc actgctacct ctgacccaaa gcagctgtca 540
aagctcgaaa aacagcagca gaggaagaa aagaccagag ctaaggggacc ttctgaattc 600
aagcaaggaa agaaacactc cccgaaaaga agaccgcagt gccagcagcg gggctgaggg 660
cgacgtgtcc tctgaacggg agccgtagct caggaggcag aattcagtgt gttatcattg 720
ggcagaactg gatcctgaaa aattcaagat gctaagcacc tacactactt taagaatttg 780
gaactgaaac atgaagagga agacagaaat aagaatttg gaacctgaat agctctgcaa 840
aaaacaccaa aggaccgttt tatcgttttc tgtgttgct gtggtggagt gatgcagtgg 900
gcactkccsg tgggccaggg ggcgggtgcg catgtggtag aaggtgtgcg ctgctgcctc 960
ccccacagaa aggttttggt ggtttctacc acatcttggc ttgcttttgg aacaggctgg 1020
ccccagcatc atttgtcatc aagtccactg tgggtgtatc tgcgtgtcca tggcgggggt 1080
tctccaayac actcacactg tccatgtttt ttttattgcc agggcccgtg ttgaagtgtc 1140
aagagagcaa tcatcaatga taatgtattg tgtgagacct ttgcatcttg taaattttct 1200
cttttttcta aaaataaata ataataaaat cctaaatctc aacaaa 1246

<210> 58
<211> 1966
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1926)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1942)
<223> n equals a,t,g, or c

<400> 58
gggagaaaga tccttcactc acagaaccag ttattagggg gttaatgaaa ttttggccta 60
aaacatgtag tcaaaaagag gtcattgttc ttggggactg gaagaaatat tggatgtgat 120
tgaaccttca caatttggtt aaatccaaga acctttgttt aaacaaatcg ccaagtgtgt 180
atctagcccc cattttcagg tggcagaaaag agcactctat tattggaata atgaatacat 240
catgagtttg atagargaaa actctaactg catccttccc atcatgtttt ccagccttta 300
taggatttca aaagaacatt ggaatccggc tattgtggcg ttggtgtaca atgtgtgaa 360
ggcatttatg gaaatgaaca gcaccatgtt tgacgagctg acagccacat acaagtcaga 420

```

```

tcgtcagcgt gagaaaaaga aagaaaagga gcgtgaagaa ttgtggaaaa aattggagga 480
tctggagtta aagagagggtc ttagacgtga tggataaatt ccaacttaac aaaaacaatg 540
acaacaacat tactaacctg tggagtcaca cgtttatgta gtagaagatg gagcaacagt 600
tttctgtatt gtgcaacttt acagtagatt tcacctttgt ttcattatta cagcagcact 660
gtatatacct gtctctaagt aaaggaaaaa acaaaaataag gacttcaatc caaagtttgg 720
acagtagatg gacttctcag aactttgcaa acataatcat tgttctcacc ctctttttaa 780
aaaaaaaaatc ggtcttcaaa gatctgttga tgaaattgct atgttaaaat tccattatcg 840
ggagttcctt atttatcact agcagagagt atgatacaat tttcaaatgt gaacaatctt 900
aaatttagct tgtctttctg ctaagctgtt aaatgtattt atagtaaagg aagaaaaaaa 960
gactgtcatt tccttataag tttgtgtaac atctcctctt ggataacttg actgtaattt 1020
racatctttt tcttttgcac atcttcctga gttgaatgtc cacgtggaat ggggtcatga 1080
attataaaag tccctgataa aagttttggt tactgggtg aacatctttc cagtaaccag 1140
gtagtcctgg tactccttta gttttaaaat taggagttaa gagagaagag gtgataaaca 1200
tagtagggaa gggaatatcg gattcatgca tcagtattatg gtgaatccaa atcaatgtct 1260
tgaatccttt gaaaacaggc actgggacat cacaggcttc agtacctgac cagtattagt 1320
tgcataatc attgaacaca cataccagag atgttttaga aatgtgagaa aaacatcctt 1380
ttggaccatt tgaaataaga aagacaaaca ctaaacaata caaccatgaa attgatcacc 1440
gggattgcaa atctaattgg gaaaagagtt gagcaaacag cttggactgt ttggagttgt 1500
tgccttactt ttaatatgt atttataaag tattccagca aaagaggatg tagcctctgg 1560
gaaaaaaciaa acatgttaca gtgttttttg tagattctcg ttctatatct catcacagcg 1620
ccagccctgt ttttagccgg aaaggattca ggataaacat tattatgcat tctgaattgg 1680
atgcatattc ctaactactg tatttggtac caaaagtggg tctacaaatg ctactgaaaa 1740
aaatctggaa attcctaattg tcctgagtat taataataaaa gtttaaaaaat gcttttatat 1800
caaaggtgca tcgtgaccaa attgttttaa aaaaaaaaaac aaaaaaaaca aaatctaggg 1860
ctgtatttta tatatatata tatatatata tatatatata tatatatata tatatatgtc 1920
cttatnggac tctctgcttt gntattttaa taaaaaatct tacatc 1966

```

<210> 59

<211> 1611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<400> 59

```

cgcgtcngtg cgaattcggc acgaggggac ttcccagagc tcacaatgga ggttgatggg 60
aaggtagagt caattatgaa gaggacagct ttggtagcca atacctcaa tatgcctggt 120
gctgctagag aagccyctat ttatactgga atcacactgt cagagtactt ccgtgacatg 180
ggctatcatg tcagtatgat ggctgactct acctctagat gggctgaggc cttagagaaa 240
tctctggctc tttagctgaa atgcctgcag atagtggata tccagcctat cttggtgccc 300
gtctggcctc gttttatgaa cgagcaggca gggtgaaatg tcttggaat cctgaaagag 360
aaggtagtgt cagcattgta ggagcagttt ctccacctgg tggtagattt tctgatccag 420
ttacatctgc cactcttggg atcgttcagg tttctgggg cttagataag aaactagctc 480
aacgtaagca tttcccctct gtcaattggc tcatcagcta cagcaagtat atgcgtgcct 540
tggatgaata ctatgacaaa cacttcacag agttcgttcc tctgaggacg aaagctaagg 600
aaattctgca ggaagaagaa gacctggcag aaattgtaca gcttgtggga aaggcttctt 660
tggcagaaac agataaaaatc actctggagg tagcaaaact tatcaaagat gatttcctac 720
aacaataatg atatactcct tatgacaggt tctgcccatt ctacaagaca gtagggatgc 780

```



```

tgtccaacat gattgcattt tatgatatgg ctcgtagagt gtttgaaacc actgcccaga 840
gtgacaataa aatcacatgg tccattattc gtgagcacat gggagacatc ctctataaac 900
tttcctccat gaaattcaag gatccactga aagatggtga ggcaaagatc aaaagcgact 960
atgcacaact tcttgaagac atgcagaatg cattccgtag ccttgaagat tagaagcctt 1020
gaagattaca actgtgattt ccttttcctc agcaagctcc tatgtgtata ttttcctgaa 1080
tttctcatct caaacctttt gcttctttat tgtgcagctt tgagactagt gcctatgtgt 1140
gttatttggt tccctgtttt ttggtaggt cttatataaa acaaacattc ctttgttcta 1200
gtgttggtgaa gggcctccct cttcctttat ctgaagtggg gaatatagta aatatacatt 1260
ctggttacac tactgtaaac ttgtatgtag ggtgatgacc ctctttgtcc taggtgtacc 1320
ctttcctcat ctctattaaa ttgtaaacag gactactgca tgtactctct ttgcagtga 1380
tttggaatgg aaggccaggt ttctataact ttgtaaacagg tactttgtga aatgactcaa 1440
tttctattgt ggtaagctca ttggcagctt agcattttgc aaaggaattg ctttgcagga 1500
aatattttaat ttcaaaaac ataatgatta atgttccaat tatgcatcac ttccccagk 1560
ataaaycagg aatgkttgtg agaaaccatt gggaactata ctctttttta a 1611

```

<210> 60

<211> 1849

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (977)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1846)

<223> n equals a,t,g, or c

<400> 60

```

gattcccggg tgcacccacg cgtccgcgcg gaatctcagt tagcgggtgga gaggcagtat 60
gtccggttca atggcgactg cggaagctag cggcagcgan tgggaaaggg caggaagtgc 120
agacctcagt cacctattac cggttggagg aggtggcaaa gcgcaactcc ttgaaggaac 180
tgtggcttgt gatccatggg cgagtctacg atgtcaccgc cttcctcaac gagcaccctg 240
gaggagaaga ggttctgctg gaacaagctg gtgtagatgc aagtgaagc tttgaagatg 300
taggacactc ttctgatgcc agagaaatgc taaagcagta ctacattggt gatatccatc 360
cgagtgcact taaacctgaa agtggttagca aggacccttc aaaaaatgat acatgcaaaa 420
gttgctgggc atattggatt ttacccatca taggcgctgt tctcttaggt ttctgtacc 480
gctactacac atcggaaaagc aaatcctcct gaggaggcct tgctgaagtt agaaagtgc 540
tccactttgg ggcgaaaact agagacttgc ttgggggctg cagaagtgcc ctctcctoga 600
atcctgccag ttgcattctt cccccttggg gccaaagacg ttggccagac atcacctcag 660
atctgagacc agcgtcttcc atctctcaga gccttactcc caaagtacct gctcactgtt 720
ccgtgttgaa caattgccgg tgtttcctct cttcactggg ttccatgagt acccttatat 780
ttcacaactt tctgttcata agttatagtg acattgctct ttggtaaaaa tgcctgcttt 840
ccaatacttt gattgcatat tagacattct taacagggcg gcagtctagt gttgaaagtt 900

```

```

ttatttttcc atttttcttt taagtaaatt ttttttaaaa aattctgatt tagggctagg 960
tgtggtggct caggccngta atcckggcac ttkgggrggc caaggtggga agatcgsttg 1020
aggccaagag ttcaagacca gcctgggcaa catagcgaga cccctatctg tattaaaaaa 1080
aatctgatt taattctttt atttatcata aggggtttta ttcttgaagt aaaggtttgc 1140
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aaagaatggt gtggccacct cctccctttc aagctagggc agcaggtagc tcttcccagc 1260
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cttgggggtg gaaagggagg gatgaattgg ggtgatagaa ccctggtgaa ttcagagtaa 1380
tctttcttta gaaaactggt gttttctaaa gaaacaggat aggagtttag agaaggcacc 1440
aaagctttca ctttggtttg gcaccagttt ctaaccatct gtttttctta ccctagctat 1500
cttttattgg taaaatataa atgtataatt atgtttgtag agctttacca aggagtttcc 1560
ctcctttttt gtttggtgat tagcaaattt ttgattctcc attttccaaa agtaagagac 1620
tccagcatgg ctttctgttt gccccgcagt aaagtaacct ccatataaaa tggatattga 1680
aagtgagagt tcatgacaac agaccgtttt ccatttcatc tgtattttat ctccgtgact 1740
ccaacttggt ggtttgttct gtttttccat gagaataaaa tactggcggt ttttttcaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggngga 1849

```

```

<210> 61
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 61
aagggtcggc ctctcaaagt gctgggatta caggcattag ccactgtgcc tggccaagaa 60
taaaaatttt ttaatcttga gaaraaacat acagktcata catataaaaa gccttgaaaa 120
tattattccc ttgactcac taattacact gctggaatat aaagaaatga tcctaaatat 180
atatgtagtt ttatggtcct aaatatgtat aaagctttat gatcactcgt gcc 233

```

```

<210> 62
<211> 2333
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (14)

```

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2331)

<223> n equals a,t,g, or c

<400> 62

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cgnccgncccg cganccacg cgtccgggtg aagatatgtg gacttagtcc cactacaacc 60
ttagccatat attttgaggt tgtcaatcag cataatgctc caattcytca aggagggcgt 120
ggtgcaatcc agtttgtgac tcagtatcag cattcaagtg ggcagagacg catccgagtg 180
accaccattg ctaggaactg ggcagatgct caaactcaaa tccaaaacat tgctgcatct 240
tttgaccagg aggcagctgc cattcttatg gcccggttag caatatatag agcagaaaca 300
gaagaagggtc cagatgtgct taggtggctg gacagacagc tcattcgact gtgtcagaaa 360
tttgaggaaat atcataaaga tgacccaagt tccttcagat ttccagaaac ttctccctt 420
tatccacagt ttatgtttca ttttaagaaga tcttctttcc tgcaagtttt taacaatagt 480
cctgatgaga gttcatatta tcgtcaccat tttatgcgtc aagatctgac ccagtctcta 540
attatgattc agcctatcct gtatgcgtat tcttttagtg gaccaccaga gccggttctt 600
cttgatagca gtagcattct tgcagatcgt attcttctca tggacacatt ctccagatt 660
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gagtatgaaa atttccgcc cctcttgcaa gccccagtggt atgatgcaca ggaaattctt 780
cactccagat ttccaatgcc aagatacatt gacactgaac atggaggcag ccaggcccg 840
ttctctcttt caaaagtcaa ccttcacag actcataata atatgtatgc ctgggggcag 900
gagtctggag cacctattct tacagatgat gttagtttac aagtgtttat ggatcacttg 960
aagaaacttg ctgtgtccag tgctgcttga agtgctaata atgttaaaga cacttaagaa 1020
gatgaaataa tattcaaatt tcatttttct ctttttccat ttatctgttg aaaccaacag 1080
atattgctct atattttttg tattagtatg gtttgagaca acatatggaa aatgttcaca 1140
tttgtagatt aagctggaat tataatgaga gcaataagaa caaatttatt ttgcttacca 1200
cagtgttata gctgggtcta gaaatttgaa gtctttataa cttaattatg tttaataaaa 1260
aatagagtct gcctcgctact acagatgtaa ctcatgtgta tattgcagac agacccaaag 1320
tggcactgaa ttttcttgct cactttttaa aaacttgctt cttaatttta gccagaaagc 1380
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tttatgattt gtttaggaat tatttgattt tataatggta attttcatga tgataatgtt 1560
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gttttccctt tgtttttcag aggtaaaatt tgcattatat ccttcagtat tttaacacta 1860
ttttggcagt ttacacatta ctttttggtt ttccttcctt tttgtgaaat gtattaaagt 1920
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tgaacacaat catatgatgg taaagcagaa acttaagaaa aaattgttta tgtgttatat 2220
tcaattagct taaataagtt gctttgttat attttatttg aattgaacta cgtaggcct 2280
```

aaatgccaat aaaatataact ttctactgtt aaaaaaaaaa aataaanacc nta 2333

<210> 63

<211> 1470

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1419)

<223> n equals a,t,g, or c

<400> 63

gcttctctgct gccacccttg tggttctgca gcccagtgcc caagtacttc ttcaagatgg 60
ccttctacaa tggttgatc ctcttcttg ctgtgctgc catccctgtg tgtgccgtgc 120
gaggacgcaa cgtcgagaac atgamgatct tgcgtctaat gctgctccac atcaaatacc 180
tgtacgggat ccgagtggag gtgcgagggg ctaccactt ccctccctcg cagccctatg 240
ttgttgtctc caaccaccag agctctctcg atctgcttg gatgatggag gtactgccag 300
gccgctgtgt gccattgccc aagcgcgagc tactgtgggc tggctctgcc gggctggcct 360
gctggctggc aggagtcac ttcacgcacc aggacgtgac gggggatgcc atcagtgtca 420
tgtctgaggt cggccagacc ctgctcacc cttcaaacg tggcgccctc catcttgacg 480
gaacgagaaa ccacaatggc tccatgctgc ccttcaaacg tggcgccctc catcttgacg 540
tgcaggccca ggttcccatt gtcccatag tcatgtctc ctaccaagac ttctactgca 600
agaaggagcg tcgcttcacc tcgggacaat gtcagggtgc ggtgctgccc ccagtgccca 660
cggaagggct gacaccagat gacgtcccag ctctggctga cagagtccgg cactccatgc 720
tactgtttt ccgggaaatc tccactgatg gccgggggtg tggtgactat ctgaagaagc 780
ctgggggagc tgggtgaacc ctggctctga gctctctcc catctgtccc catcttctc 840
cccacacctc cccaccagc gggccctgaa gcaggggcmaa accctcttcc ttgtctcccc 900
tctccccact tattctctc tttggaatct tcaactctg aagtgaatgt ggatacagcg 960
ccactcctgc cccctcttg ccccatccat ggactcttg ctcggtgcag tctccactct 1020
tgacccccac ctctactgt cttgtctgtg ggacagttgc ctccccctca tctccagtga 1080
ctcagcctac acaaggagag ggaacattcc atccccagtg gactctctc ctatgtgggtc 1140
ttctctaccc ctctacccca cattggccag tggactcat cattctttg aacaaatccc 1200
cccactcca aagtccatgg attcaatgga ctcatccatt tgtgaggagg acttctcgcc 1260
ctctggctgg aagctgatac ctgaagcact cccaggctca tcmtgggagc ttctctcagc 1320
accttcacct tccctccag ttagcctcc tgtcagtggt ggctggaccc ttctaattca 1380
gagggtctcat gcctgccctt gccagatgn ccangggtn tgcamtytyt ggggatacca 1440
gttcagttct camatttytg ggttttytgt 1470

<210> 64

<211> 939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 64

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agnntaccgg ntccggaatt cccgggtcgg acccacgcgt ccggtctcct cagaagtcgc 60
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<210> 65

<211> 2068

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (308)

<223> n equals a,t,g, or c

<400> 65

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acaagccctg aacgagcacc tcagcagcgc tagtatgtcc aggggtactc actgtcccag 180
gcagacgtgg acgcgttcag gcagctctcg gcccgcgccg ctgaccccca gctcttccac 240

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gattacttca aatttgatgt cttttattgc atgaacatta cggatattga tgacaagatc 600
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<210> 66

<211> 1391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1358)
<223> n equals a,t,g, or c

<400> 66
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ccccgcgctg ggaacggcct gacagtcact cgtcaaagga agtggctgcc ggcagctctt 420
gaccgggaat cggatcctag tcccaccccc tccgctccag gcttccttct gcaacaggcg 480
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aagaaccagt cagtaaaagca aaacagagtc ggagtgaaaa gaaggcacgg aaggctatgt 780
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1391

<210> 67
<211> 659
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc feature
 <222> (139)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (475)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (585)
 <223> n equals a,t,g, or c

<400> 67
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 tttgtccgcg gcctgcacag cgaagcctgg gctggaggag cgggcggagg ggacgggtcaa 240
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<210> 68
 <211> 2981
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2858)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2948)
 <223> n equals a,t,g, or c

<400> 68
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 ggggctgtgc tgggtgtctt ctccctcgcc agctgggttc catgcctctg cagcgggtgcc 180
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 tatgctttca ttctcctcct gagcactgtc gtatcctata tcatgcagag aaaagagatg 300
 gaaacttact tgaagaagat tcctggattt tgtgaagggg gattttaaatt ccatgagggt 360


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gatataaatg cagataaaga ttgtgatgtg ctgggtgggt ataaagctgt gtatcggatc 420
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<210> 69

<211> 603

<212> DNA

<213> Homo sapiens

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<221> misc feature
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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (590)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (595)
 <223> n equals a,t,g, or c

<400> 69
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 gccgccatth catctgtcct cattctctgc gccttttcga gagcttccag cagcgggtatg 120
 ttggggccaga gcatccggag ttcacaacct ctgtgggtccg tagagccact atgaggaggg 180
 ccctgggaag aatttgccat ttccagtgkg taagggggcac ggcttcggtg ggggaggggg 240
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 aggccacggc tgtaggtgtg ttggttaaact ccgagctgga ggtcatcgga cccgaaatga 540
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 agc 603

<210> 70
 <211> 1101
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (195)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1080)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1081)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1090)
 <223> n equals a,t,g, or c

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<400> 70
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ggtgcctatt tggttatgac aaaagatatg gctaattttt attttgaaaa gtttgaataa 180
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gattcttttc tataatgtgc ctggctctga ttcttcattc tgtatgtgac tatttatata 960
acattagata attaaatagt gagacataaa tagagtgttt tcatggaaa agccttctta 1020
tatctgaaga ttgaaaaaaa taaatttact gaaatacaaa aaaaaaaaaa aaaaaaaatn 1080
nctcggctcg ncaagggaatt c
1101

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<210> 71

<211> 714

<212> DNA

<213> Homo sapiens

<400> 71

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ggcagagaaa ctgtggcggg atagttttcg ggtccttgtc cagtgaacac cctcggctgg 60
gaagtcagtt cgttctctcc tctcctctct tcttgtttga acatggtgag gactaaagca 120
gacagtgttc caggcactta cagaaaagtg gtggctgctc gagccccag aaaggtgctt 180
ggttcttcca cctctgccac taattcgaca tcagtttcat cgaggaaaga gcatgtcctt 240
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cattgcattg tgttctaatt acaagtatgt tgtatttgag atttgcttag attgtgtgac 600
tgctgccatt tttattggtg ttgtattatt ggaatggtgc catattgtca ctcttctac 660
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<210> 72

<211> 2890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2853)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2882)
<223> n equals a,t,g, or c

<400> 72
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gtcttcatca gcatcggttc tgccctgggc ttcaaatacc cgggtgggaa caaccagacg 180
gcggtccagg acaacgtgaa ggtgtcgtg gccttcgggc tgagcatcgc cacgctggcg 240
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<210> 73

<211> 2488

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (277)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

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<220>

<221> misc feature

<222> (2382)

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<221> misc feature

<222> (2412)

<223> n equals a,t,g, or c

<400> 73

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2488

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<210> 74

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<400> 74

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ttgaagcagc aggtccaggt cactttgtat atagaatttt gctgtattca ataaatctgt 660
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<210> 75
<211> 906
<212> DNA
<213> Homo sapiens

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<221> misc feature
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (889)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (894)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (897)
<223> n equals a,t,g, or c

<400> 75
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<210> 76
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (36)
 <223> n equals a,t,g, or c

<400> 76
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 aaaacaaaac cctctgtatc attatgtgaa caacgggtgca aaaaagagga gacacagttt 180
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 caagtgtggg tctcactctt ctagtctctg a 271

<210> 77
 <211> 673
 <212> DNA
 <213> Homo sapiens

<400> 77
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<210> 78
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 78
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367

<210> 79

<211> 1344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1319)

<223> n equals a,t,g, or c

<400> 79

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1344

<210> 80

<211> 3748

<212> DNA

<213> Homo sapiens

<400> 80

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aaaaaaaaaa aaaaaaaaaa aaaaaacc
3748

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<210> 81

<211> 1891

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1869)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1879)

<223> n equals a,t,g, or c

<400> 81

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<210> 82

<211> 1954

<212> DNA

<213> Homo sapiens

<400> 82

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<210> 83

<211> 936

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (930)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (936)

<223> n equals a,t,g, or c

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936

<210> 84

<211> 1513

<212> DNA

<213> Homo sapiens

<400> 84

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<210> 85

<211> 1298

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<400> 85

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<210> 86

<211> 2009

<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1959)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2008)
 <223> n equals a,t,g, or c

<400> 86
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<211> 534
<212> DNA
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<222> (526)
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<210> 88
<211> 4302
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

<400> 88

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4302

<210> 89

<211> 2782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (743)

<223> n equals a,t,g, or c

<400> 89

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gaagcctggg aaacagctaa gccaatcctt gctagaaggc aaaggagact ctttgatgat 180
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cggcacctgt taccttgtgt gattcatgca gctgtactca aggtaaaagga agaagaaagt 300
ctcgaaaaca tttcttcagt taagaagatc ataaagcaga taatatccca ttccagtaaa 360
gttttgcact tcccaatcc agaagacaag aaattggaag aaatcattca ccagattact 420

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aatgtggaag ctctcattgc cagagctcgg tcactaaaag ccaagtttgg aactgagaaa 480
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2782

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<210> 90

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 90

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aatgaaatta tatagattag atctcagtat ttaaactgtt cctcaatttt gtgaggctgt 180
gttggaataa acccgctct agtgctgttg gtatgcaagg cagcgggtgt taatcaatat 240

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cagaccaaac catttgatc tggcatcact tactaacaca cgacatgcgg cttttctgca 480
tcaactgcta tgacgggttaa gaatgtcagt atacaagaag gaatagaaaa ctgatactgt 540
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aacggggggg ggcccggg                                     1037

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<210> 91

<211> 1052

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (962)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (965)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1044)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1048)

<223> n equals a,t,g, or c

<400> 91

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ggagccacac cgcagnaagc acacgccctt ttgagccaga catgctgact ttctaataag 120
gatgttctct ctccacagct gaaagatgaa aattctaagc tgagaagaaa gctgaatgag 180
gttcaragct tctytraagc wcaaacagaa atgggtgagga cgcttgagcg gaagttagaa 240
gcaaaaatga atcaaggagg aaagcgacta ccacgacctg gagtcggtgg ttcagcaggt 300

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ggagcagaac ctggagctga tgaccaaacg ggctgtaaag gcagaaaacc acgtcgtgaa 360
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agccctgcgg tgccggccagg gtgccagcct gaccgtggtg aagcagaacg ccgacgtggc 480
cctgcagaac ctccgggtgg tcatgaacag tgcacaggct tccatcaagc aactgggttc 540
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agttaaagac gaggaggaag actcttgagg acccctgggt gttctcagca tgaagctccg 660
tgtataccct gaggtcacca ccgctcgatc taaatgtgca gttgtgtcct taaatatgca 720
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1052

<210> 92

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1115)

<223> n equals a,t,g, or c

<400> 92

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agttcgaat atggcaactt tgaaagatat caccaggaga ctaaagtcca tcaaaaacat 180
ccagaaaatt accaagtcta tgaaaatggt agcggcagca aaatatgccc gagctgagag 240
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gatgatacta aaacatttaa aaatattaat atgctactat taaaattttt tagtagaaga 1200
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1234

<210> 93

<211> 1571

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1571)
<223> n equals a,t,g, or c

<400> 93
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gctttccctg ggtccggggg ctgccasgag ggascgggar gtctgtccac ctccacaaggc 120
aggctctgtc agcttttgtc actccctgat ttcttattct ttgttacctt ttttcgcctg 180
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tcttttttaa aaagaagaga aagaaagaag gaaagaagac aaagaaagaa taaaaacctc 300
cgagtgttaa ctacttttcc ctttcttctt tttttataaa agaatacatt ctttcacatc 360
ttgaatttct gtgaatttta gtttccattc tttctgcctt tgcaafaccag acacctaaat 420
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ggaagatccc aaacaccaa gatggaagggt gaaaataaag actgcgtgac cggaagaaaa 1440

gtttgaatta ctaatagtgg ggaataataa tttcagtttt ggtttttaaac atctggnatt 1500
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 aaagggggggg n 1571

<210> 94
 <211> 1872
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (6)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (51)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1271)
 <223> n equals a,t,g, or c

<400> 94
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 gacctattca tgcattctca ccagcagctg gagcatctcc acccttggtg tttctgggtg 180
 aaattacttg agctctgtgc tttgaaacca gtgtgataag tcctttacta aggagctcct 240
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 gccggccccg cctcacttct aatgagaagc ttatgctggc ctccatgttc cactcgtctt 1260

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aatgttgtaa taaatattcc tttgatcttg gtgtttgcaa aaaaaaaaaa aaaaaaact 1860
cgagactagc gg                                     1872

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<210> 95

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1505)

<223> n equals a,t,g, or c

<400> 95

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gccgaatctc cctaatecct gtgacctgtg tcacctctgc atcgcgagga gggggataag 180
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ggggnccgt acccat                                     1516

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<210> 96

<211> 1770
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 96
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gtcggacatt gaagcggtag ccatgccggc agwgtgaaca gtccttccac acccccaaca 120
gcctgcgcaa acacatccgc aacaacctg acacagtaaa gaagttctac acctgcgggt 180
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gcaccagcaa tggcgcaact gtctcttcca ccaaaaggca caagtccctt ttccagtgcg 420
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rgargtgccc atggagacta gagagaatgg actggaagaa tgtgccggtg agccyttgtc 720
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<210> 97
<211> 938
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (938)
<223> n equals a,t,g, or c

<400> 97
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gccaggccta ggagaagaca ggtgcagctc ttgcagctct gcgggtgtgc ggccaaaggc 180
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aaggggggaa ttgggggtcca ccatagtctt ctgctctggg cctccacggg tgggaccagn 360
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ctggcagaag acactcacca gggtatctgt gaagagactc tgggatccca tcacctcaaa 480
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ataggatctt gactccaaca gcggcaaccc ccacccccat tgtggtccgt ccttaaccca 600
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ttcctattaa aggaccttct gaagggcaaa aaaaaaan 938

<210> 98
<211> 311
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<400> 98
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ccctgcccta cggccaggca tgtgccatcc tcccggccacc cagaggtttg tgggctgagg 120

```

accaactctc accgctgtct ctttcgtccc cagctccagg ccatgcccgc agccggaggt 180
gtgctctacc agccctcggg accagccagy ttccccagca ccttcagccc ygccggctcg 240
gtggagggct ccccaatgca cggcgtgtac atgagccagc cggtccttgc cgctggncce 300
taccacagna t                                     311

```

```

<210> 99
<211> 620
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

```

```

<400> 99
actgccgggc gttcggacgt cttgcctgtc gctggaggag aggtccgggc tctccaggaa 60
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ccggaggagc tggcagccct ctttcgcgcc tacggcacgg tcatgagctg cggcgtcatg 180
aaacagttcg ctttcgtgca catgcgcgag aacgcggggc cgctgcgcgc catcgaagcc 240
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cctcttaata cttggaagat tttcgtgggc aatgtgtcgg ctgcatgcac gagccaggaa 360
ctgcgcancct cttcgagcgc cgcggacgcg tcatcgagtg tgacgtggtg aaagactacg 420
cgtttgttca matggagaag gaagcagatg ccaaagccgc aatcgcgag ttcaacggca 480
aagaagtga gggcaagcgc atcaacgtgg aatctycacc aagggtcaga agaaggggcc 540
tggcctggct gtccagtctt gggacaagan caagaaacca agggctgggg ataggccttc 600
cctggaatgg tggctttctg                                     620

```

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<210> 100
<211> 2511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (44)

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2511)

<223> n equals a,t,g, or c

<400> 100

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gccagattcg gccgagcaag cggaacctct gggaaaagca atctgtggat aaggtcactt 120
ccccactaa ggtttgagac agttccagaa agaaccacag ctcaagacgc aggacgagct 180
cagttgtaga gggctaattc gctctgtttt gtatttatgt tgatttacta aattgggttc 240
attatctttt atttttcaat atcccagtaa acccatgtat attatcacta tatttaataa 300
tcacagtcta gagatgttca tggtaaaagt actgcctttg cacaggagcc tgtttctaaa 360
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gtgataccaa ccacatctga agtcaacaga agatccaagt ttaaaattgc ctgcggaatg 480
tgtgcagtat ctagaaaaat gaaccgtagt ttttgttttt ttaaatacag aagtcagtgt 540
gtttctgcac ttataataa agcatggaag aaattatctt agtaggcaat tgaacactt 600
tttgaaagta acccatttca gatttgaaat actgcaataa tggttgtctt taaaaaaaaa 660
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cacatataca aacacactaa tggtagaatg cttttttatg tgctagacta ttatatttag 900
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gaatcttcta gctttagcaa acctaaagca aaggaaggaa agccacgaag aatgcagaag 1920
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```

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catccacaat aaatggaatt ccttcctgca aaaaaaaaaa aaaaaagggc ggccgntcta 2460
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<210> 101

<211> 2981

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<400> 101

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ccctcggtta ccctttcctg cccactagc gtggccgcga gcctcggtga gccggccgta 120
ttccgcctct cgttagggg gcacaggcgc aggcacggc ccggccactc caagccttcg 180
gtgcgcgggc gcgtctggga tacgggcccg ggaggcgcgc ccctccgtcc gcccggtgcc 240
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accggcacct ggccaacgtg acccaactgg taaagcagct gcgcaccgag cggccgtcgg 600
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gatgtttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 2981

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<210> 102

<211> 2804

<212> DNA

<213> Homo sapiens

<400> 102

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gaccactttt acaagagaag gatcatctcg tgtcacaca gccactgaac aagcagaaaag 180
agaggagatc atgaaacaaa tgcaagatgc caagaaagct gaaacagata agatagtcgt 240
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```

<210> 103

<211> 722

<212> DNA

<213> Homo sapiens

<400> 103

```

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aa 722

```

<210> 104

<211> 1636

<212> DNA

<213> Homo sapiens

<400> 104

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gagacaggcg tgcagtgtgc gctgagcctg caggagtttg tgaaggatgc tgggagctac 360
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aaaaaggggg ggggggg

```

1636

<210> 105

<211> 1561

<212> DNA

<213> Homo sapiens

<400> 105

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gtatgacctc agccggccta ctgcctctca gctggaggac gagctgcagg tggggaatgt 180
tccccttaaa aaagcaaagg agtctaaaaa gcatgaaaag cttgagaaac cagagaagga 240
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gaagaagtct gagaaaaaga gcaagcaaga gaaagagaag agcaagaaga aaaaaggagg 360
taaaacagaa caggatggct atcagaaacc caccaacaaa cacttcacgc agagtcccaa 420
gaagtcagtg gccgacctgc tggggtcctt tgaaggcaaa cgaagactcc ttctgatcac 480
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gaagacttgg tagaccagcg tctcatcagc gagctgagga aagagtacgg aatgacctac 720
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aacttcctat ccaggttccg gtggaggagg aggttgctgg tgatctctgc tcctaacgat 960
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```



```

ctgcgccaca taaccattct gaagctttta ggcgttgag aggaagttgg gggagtgtta 1080
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ggaaaagacg gaaatgtcaa atcctggtat ccttcccaa tgtggtccat ggtgattgtg 1260
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tactgagcag aaatatgtaa ccttagactc agccagtttc ctctgcagct gctaaaacta 1500
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t

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1561

<210> 106
 <211> 486
 <212> DNA
 <213> Homo sapiens

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<400> 106
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catttgccaa aaatgagtct aagtgcattt actctcttcc tggcattgat tgggtgtacc 120
agtggccagt actatgatta tgattttccc ctatcaattt atgggcaatc atcaccaaac 180
tgtgcaccag aatgtaactg cctgaaagc tacccaagtg ccatgtactg tgatgagctg 240
aaattgaaaa gtgtaccaat ggtgcctcct ggaatcaagt atctttacct taggaataac 300
cagattgacc atattgatga aaaggccttt gagaatgtaa ctgatctgca gtggctcatt 360
ctagatcaca accttctaga aaactccaag ataaaaggga gaggtttctc taaattgaaa 420
caactgaaga agctgcatat aaaccacaac aacctgacag agtctgtggg ccacttccc 480
aaatct

```

486

<210> 107
 <211> 800
 <212> DNA
 <213> Homo sapiens

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<400> 107
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gttcgtgcag gacggcatct tgctaccaa ttgaatattt tagtacagca acattttgac 120
ttggcttcaa ctactattac aaatattcca atgaagggtg ttcgcatcta ggtggcgga 180
gtcgagaagg ctcgttttaa gaaacaataa cattaaagtg gtgtacacca aggacaaata 240
acattgaatt acactattgt actggagctt atcggatttc acctgtagat gtaaatagta 300
gaccttcctc ctgccttact aattttcttc taaatggctg ttctgtttta ttggaacaac 360
cacgaaagtc aggttctaaa gtcattagtc atatgcttag tagccatgga ggagagattt 420
ttttgcacgt ccttagcagt tctcgatcca ttctagaagr tccaccttca attagtgaag 480
gatgtggagg aagrgttaca gactaccgga ttacagattt tgggtgaattt atgagggaaa 540
acagattaac tccttttcta gaccccgat ataaaatcga tggaagtctt gaggtccctt 600
tggaacgagc aaaagatcag ttagaaaaac ataccggtta ctggcctatg gatcatttca 660
caaaccacca tttttaacak gcaagcggta gttccattag ccagtgttat tgtggaaaaga 720
tcyctggaca gaggaagatg tggttwaaac ggtccaaaaa acatwttcca acttggttgg 780
ataaggggaa ggaaaaaagg

```

800

<210> 108
 <211> 1058
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1054)

<223> n equals a,t,g, or c

<400> 108

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cgggccccgc gcggggatcc ggctggaaga gacgtacac ggctcgacg agtccggggc 180
cgatgtacca ggtgagcggc cagccccctc tggctgcgac gcgcccttat ggagcccca 240
gcgcamcccg ggcccagccc agaccytaty ccttccttcc tgggctggar gtaktaacag 300
gatccactca cctgcgagg gcagcaccag aggagggctc cctggaggag gcggcaaccc 360
ccatgcccca aggcaatggc cctggcatcc cccagggcct ggacagcact gacctcgacg 420
tccccacaga agctgtgaca tgccagcctc aggggaaccc ttgggctgca cccacttct 480
gccgaatgac tctggccacc cctcagagct gggcggcacc agacgggcgg ggaatgggtg 540
cctgggtggc cccaaggccc accggaagtt gcagacacac ccatctctcg ccagccagg 600
cagcaagaag agtaagagca gcagcaaata caccacctcc cagatcccc tccaggcaca 660
ggaagactgc tgtgtccact gcacctgtgc ctgcctgttc tgcgagttcc tgacgctgtg 720
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gattccagca gggtcctct gagtggggcc agggccagga ctgtcacaca aggcttgana 1020
aagccccctc cctggtcct ctccatccca ccntgtc 1058

```

<210> 109

<211> 1076

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<400> 109

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caggaggaag caggaagaaa caggaggagg aacctgagac agagccgctg aagtccttgc 60
tggaagcaga tgggattaaa tgagcgacga gactgggaga gtgccagaga gagacaccaa 120
gaggatgcag gtctgtctgc tatcagctat gccgctgccc gttgcgctgc agaccgctt 180

```

```

ggccaagaga ggcatcctca aacatctgga gcctgaacca gaggaagaga tcattgccga 240
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa waaaaaaatt ttgggggggg cccct 1076

```

<210> 110

<211> 1199

<212> DNA

<213> Homo sapiens

<400> 110

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gttgggtggg ttctgcccgg atggaagctc cggccgcgga gtgatggtgg cctcagcgaa 60
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ggtagaggag gctgtggtcc tcagggggct gtagggtggg gtatggctcg ggcagcagc 180
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```

<210> 111

<211> 3630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3608)

<223> n equals a,t,g, or c

<400> 111

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cggcgcgtcc tcgctgcgct tcgcctccgc ctccctcggac tcggactcgg gtttatatcg 180
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caagatgccc cgtctgattg ccaagggtga gggcaaagcc aatggaatca agacagttat 420
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```

<210> 112

<211> 1526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1515)

<223> n equals a,t,g, or c

<400> 112

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atctttccgc cctgggaccg cggctacaag gacccaaggt tctaccgctc gccccctctt 360

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cacgagcadc cgctgtacaa agaccaggcc tgctatatct ttcaccaccg ttgccgcctt 420
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```

<210> 113

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (422)

<223> n equals a,t,g, or c

<400> 113

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tggtgttggt attaggagat ctgcacatcc cacaccgggt caacagtttg ccagctaaat 120
tcaaaaaact cctgggtgcca ggaaaaatc agcacattct ctgcacagga aacctttgca 180
caaagagag ttatgactat ctcaagactc tggctggtga tgttcataatt gtgagaggag 240
acttcgatga gaatctgaat tatccagaac agaaagtgtg gactgttgga cagttcaaaa 300
ttggtctgat ccatggacat caagtatttc catggggaga tatggccagc ttagccctgt 360
tgcagaggca atttgatgtg gacattctta tctygggaca cacacacaaa tttgaagcat 420
tngagcatga aaataaatc tacattaatc caggttctgc cactggggca tataatgcct 480
tggaaacaaa cattattyca tcattgtgtt gatggatc caggcttcta cagtggkcac 540
ctatgtgtaa tcagctaatt ggagatgaag tgaaagtaga acgga 585

```

<210> 114

<211> 501

<212> DNA

<213> Homo sapiens

<400> 114

```

gatgaaaaga aggtttttgc tcttcaaatg cttaagtaaa ctaaaaggca gagctggaaa 60
taaagcccgt attgtggact ccaagtaatg ctctttctgc tacaccatac tttgtggtgt 120

```

```

ctgctcccat gtgcttcttc gctaaggctg atcaaaaaag ttagtaggtt gcttcagcta 180
taagaatttg atggtcttcc ttagtcatca tagtctgcag caatcatttt tgttcatcat 240
tgggatgtct gcttactcct gttgagtaaa tgtgatctat tcacccttgg ragctccttg 300
cacaccaaca gtattcttgg atagggacaa gtgttgctta agtcagtgcg gatttcttta 360
gcataataaa aggtccatg taggatgcta atacttgagt gaaatatgct tcataagcag 420
ccttgttttg acagagttgg tgtaaagtga ggatatgtct tggcctgagc gtcttcaaag 480
catgtgccac tttgtgcac t

```

501

<210> 115

<211> 1965

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<400> 115

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agaggcggca ctggcggcaa gagcagacgc ccgaaccgag cgagaagagc ggcagagcct 60
tatccctga agcggggccc cgcgtccag mcctggccca aaggcaggag cagcagacaa 120
gagtgcagtg gtggctgccg ccgcaccagc ctcaagtggca gatgacacac cccccccga 180
gcgtcggaa aagagcggta tcatcagtga gccctcaac aagagcctgc gccgtccc 240
cccgtctcc cactactctt cttttggcag cagtgggtgt agtggcgggt gcagcatgat 300
gggcggagag tctgctgaca aggccactgc ggctgcancc tgnccctcct gttggccaat 360
gggcatgacc tggcggcggc catggcgggt gacaaaagca accctacctc aaagcacaaa 420
agtgggtgctg tggccagcct gctgagcaag gcagagcggg ccacggagct ggcagccgag 480
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gagcatctcc cgctgatgag cgaggcgggt gctggcctgc ctgacatgga ggctgtggca 600
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gcgggcctgg ctgagtacc catgcaggga gagctggcct ctgccatcag ctccggcaag 780
aagaagcggg aacgctgcgg catgtgcgg ccctgccggg ggcgcacaa ctgcgagcag 840
tgcagcagtt gtaggaatcg aaagactggc catcagattt gcaaattcag aaaatgtgag 900
gaactcaaaa agaagccttc cgctgctctg gagaagggtg tgcttccgac gggagccgcc 960
ttccggtggt ttcagtgcg gcggcggaa ccaaagctgc cctctccgtg caatgtcact 1020
gctcgtgtgg tctccagcaa gggattcggg cgaagacaaa cggatgcacc cgtctttaga 1080
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tccgaccatg aaatagtga tagtttgctt ggagaatcca ctacgttca taaagagaat 1500
gttgatggcg ccgtgtagaa gccgtctgt atccatccac gcgtgcagag ctgccagcag 1560
ggagctcaca gaaggggagg gagcaccagg ccagctgagc tgcaccaca gtcccagagc 1620

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tgggatcccc caccccaaca gtgatttttg aaaaaaaaaat gaaagttctg ttcgtttatc 1680
cattgcgatc tggggagccc catctcgata tttccaatcc tggctacttt tcttagagaa 1740
aataagtcct ttttttcttg ctttgcta at ggcaacagaa gaaagggctt ctttgcggtg 1800
tcccctgctg gtgggggttg tcccagggg cccctgcgc ctgggcccc ctsccacggc 1860
cagcttcctg ctgatgaaca tgctgtttgt attgttttag gaaaccaggc tgttttgtga 1920
ataaaacgaa tgcattgttg tgtcacgaar maaaaaaaaa aaaaaa 1965

```

<210> 116

<211> 1060

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1060)

<223> n equals a,t,g, or c

<400> 116

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gaaacacata cattggatat gggaagatgg cggctgtgtc ggtgtatgct ccaccagttg 60
gaggcttctc ttttgataac tgccgcagaa tgccgtcttg gaagccgatt ttgcaaagag 120
gggatacaag cttccaaagg yccggaaaac tggcacgacc atcgtgaggg tggctataaa 180
ggatggcata gttcttgagg cagatacaag agcaactgaa gggatgggtg ttgctgacaa 240
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tgcagacaca gacatgacaa cccagctcat ttcttccaac ctggagctcc actccctctc 360
cactggccgt cttcccagag ttgtgacagc caatcggatg ctgaagcaga tgcttttcag 420
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cctctacagc atctatcctc atggatcaac tgataagttg ccttatgtca ccatgggttc 540
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cggaagcaac attgacctct gcgtcatcag caagaacaag ctggattttc tccgcccata 720
cacagtggcc aacaagaagg ggaccaggct tggccgggtac aggtgtgaga aagggactac 780
tgcatgcctc actgagaaaa tcaactcctc ggagattgag gtgctggaag aaacagtcca 840
aacaatggac acttcctgaa tggcatcagt gggtggctgg ccgcggttct ggaagggtgt 900
gagcattgag gccagtaag aactcatgt ggctagtgtt tgccgaatga aactcaactc 960
ataaaaaaac aaaaacccaa ttgggcagct gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1060

```

<210> 117

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<400> 117
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gacttgctcg atcacccaat ggaagtggat acttgtaaag tctacaccac tgtacttggc 120
gttaaattctt gctgaattcg tggtaagctg ttaccatgtc tacattttgt agantgattt 180
tggctcgcag caaaattcga tttcacttct cataccctt tccttccact tgaaatgcaa 240
tttagacaga ggccctgtgg tgaaagtgtc aatattaagt ttmcccttag aagatcccyt 300
cctcaaacct cagaacctct agcagtgtta ccctwaaaca aaaatgagct cgagaaaaaa 360
gtagctcagt tacagagaag caaatcgagt tatttcccca cataaaaaagt ttccccagat 420
tctaagaatt gcagtatcct gtaccctaaa atttttcaag gtgactcctg ttgtcgtctg 480
ttgataactt taataaagggt catttaagga cataagtttt taaagactcc caaagtgaag 540
cttaaacatt ttcgggatta tcgattgcat atatcagttt atgctgtgtg ctgaattact 600
atgccatgtg ctatttttagt gtttggggaa aatgaaaaat aaaatttgtt ctttagctta 660
ataaatatgt cttattttta aaaaaaaaaa aaaaaactcg agactagct 709

<210> 118

<211> 2053

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2049)

<223> n equals a,t,g, or c

<400> 118

ctccttggcg cctgtcccca cggccccgcg agcgtgacca cgatgctccc catacccac 60
ccattcccga tacaccttac ttactgtgtg ttggcccagc cagagtgagg aaggagtttg 120
gccacattgg agatggcggg actgagcaga catgccccca cgagtgcctt gactccctgg 180
tgtgtcctcg gaaggaagat cttggggacc cccccaccgg agcacacca rggatcatct 240
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cggggagtgt gggaagtctg gcggttggar ggggtgggtg ggggcagtgg gggctgggcg 360
gggggagtgc tggggtagga agtgggtccc ggagattttg gatggaaaag tcaggaggat 420
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gatctattcc cctcttttgt ttcttggggc atttttcctt tttttttttt tttgtttttt 540
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caggggggca gtgacaaaag caagaacgca cgaagccagc ctggagacca ccacgtcctg 660
ccccccgcca tttatcgccc tgattggatt ttgtttttca tctgtccctg ttgcttgggt 720
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gagccaaatt gtcacaattg tggaaaccac attggcctga gatccaaaac gcttcgaggc 1560
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gtgcctgccg cctcggtcca cttggggccc gtgtttgact caactcagct cctttaacgc 1920
taatatcttc ggcaaaatcc catgcttggg ttttgtcttt aaccttgtaa cgcttgcaat 1980
cccaataaag cattaataag catraaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
ggggggggnc cg 2053

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<210> 119

<211> 1824

<212> DNA

<213> Homo sapiens

<400> 119

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agttcctagc aagctgttca caagattgcc tgataagaat atggaagctg tatataaagt 60
caacatcttt agaaactcag gatgacgata acataagact gaaggaaaat actttttacca 120
tagaaaatga aaagtgttaa aatagcattt gctgttactc tggagacagt gctagccggg 180
catgaaaact ggggtaaatgc agttcactgg caacctgtgt ttacaaaga tgggtgtccta 240
cagcagccag tgagattatt atctgcttcc atggataaaa ccatgattct ctgggtccca 300
gatgaagagt caggagtgtg gctagaacag gttcgagtag gtgaagtagg tgggaataact 360
ttgggatttt atgattgcca gttcaatgaa gatggctcca tgatcattgc tcatgctttc 420
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attgtcattt caggacactt tgatggtgtc caagacctag tctgggatcc agaaggagaa 540
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gaccaatcac aggtgacttg gcatgaaatt gcaaggcctc agatacatgg gtatgacctg 660
aaatgttttg caatgattaa tcggtttcag tttgtatctg gagcagatga aaaagttctt 720
cgggtttttt ctgcacctcg gaattttgtg gaaaattttt gtgccattac aggacaatca 780
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gaaataaatg actggaccca ctgtgtagaa acaagtcaaa gccaaagtca tacactggct 1680
atcagaaaaat tatgctggaa gaattgcagt ggaaaaactg aacagaagga agcagaaggt 1740

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gctgagtggt tacactttgc aagctgtggt gaagatcaca ctgtgaagat acacagagtc 1800
 aataaatgtg cactgtaatg gaaa 1824

<210> 120

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<400> 120

aggaagctgg gggaccattt tgcacccatga gtttgtgaaa aatctggatt aaaaaattac 60
 tcttccagtg ttttctcatg cmaaatttgc tyctarcatg tgataatgag taaactaaaa 120
 ctatttgcag ctttctctca attnacattt tggtngtata ctccagagtg atgttatcta 180
 agtttaagta gtttaagtat gttaaagtgt gatcttttac accacatcac agtgaacaca 240
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 agctttttta aagttagtta aaagaattga gacacaatac taatactgta ggaattgggtg 420
 aggccttgac ttaaaacttt ctttgtactg tgatttcctt ttgggtgtat ttgctaagt 480
 gaaactgtt aaattttttg ttaactaaat tttttctta aaataaagac tttttcaca 540
 wraaaaaaaa aaaaaaaaaa actcgagggg gggcccgtag ccaatcgctt gtgatgtntc 600
 gtatac 606

<210> 121

<211> 838

<212> DNA

<213> Homo sapiens

<400> 121

gaatcccggg tcgaccacag cgtccgggaa agatcggcgc gcaccgcagg agcaacgggt 60
 ggtcctgcgg ctgtgatgtc ggtgttgagg cccctggaca agctgcccg cctgaacacg 120
 gccaccatct tgctggtggg cacggaggat gctcttctgc agcagctggc ggactcgatg 180
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 tacagyctcc agaacacaga ggagtccctg cgccatgttg atgccagctt cttcttgggg 360
 aargtgtgtt tcctcgccac aggtgggtggm rggttttagg gccaccatgg cgcacgcct 420
 ggtgcgcgtg ctgcagatct gtgctggcca cgtgcccggt gtctcagctc tgaacctgct 480
 gtccctgctg agaagctctg agggccctc cctggaggac ctgtgagggg ggctkgcccc 540

tgggctgccc cttctcatgg cttegtgctg actccataaa cattctctgt tgaggatgtc 600
cagtcagggc ttgacaggcc caggctcagc cccccgtggc tgggaagggt ccctgcagtg 660
ccagtgtctg agcagggaga gctgggcaga agcagcgagg gggcccagct ggcgagactg 720
tagccccctc ccaactccac actcactctt gcagagcctg tgtctttaag cagctggcgt 780
gttacatctc catttaaggt ttcctttgaa caaaagggtc gtggctaaaa aaagttta 838

<210> 122

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<400> 122

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gcgccggagc cggggccgct tggagctcgt gtgggggtctc cgggtccaggc cgccggcatgg 120
gcgtcctggc cgcagcggcg cgctgcctgg tccgggggtgc ggaccgaatg agcaagtggg 180
cgagcaagcg gggcccgcgc agcttcaggc gccgcaangc ccggggcgcc aaggggcatcg 240
gcttcctcac ctccggctgg aggttcgtgc agatcaagga gatggtcccg gagttcgtcg 300
tcccggatct gaccggcttc aagctcaagc cctacgtgag ctacctcgcc cctgagagcg 360
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cacaggaggg aaagctcttc cagctctacc ccagggaactt cctgcgctag ctgggcgggg 540
gaggggagcg ctgccctcat ctcatcttcta ttaaacgcct ttgccagcta aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggggg gggcgagcgc gtgggc 656

<210> 123

<211> 1386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<400> 123

aaccgggnaa aaggaaaccg tgttgtgtac gtaagattca ggaaacgaaa ccaggagccg 60

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cgggtgttgg cgcaaaggtt actcccagac ccttttccgg ctgacttctg agaaggttgc 120
gcacagctgt gcccggcagt ctagaggcgc agaagaggaa gccatgcctt ggcggggct 180
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cattgg

```

1386

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<210> 124
<211> 845
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (823)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (825)
<223> n equals a,t,g, or c

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<400> 124
ggcagaggtt cacaccgga agcaggggcc cgaggcggag ccggccgcga tgagcgggga 60
gccggggcag acgtccgtag cgcctccctc cgaggaggte gagccgggca gtggggtccg 120
catcgtgggtg gactactgtg aacctgcggg ctctcaggcg acctacctgg agctggccag 180
tgctgtgaag gagcagtatc cgggcacgga gatcgagtcg cgcctcgggg gcacaggtgc 240
ctttgagata gagataaatg gacagctggt gttctccaag ctggagaatg ggggctttcc 300
ctatgagaaa gatctcattg aggccatccg aagagccagt aatggagaaa ccctagaaaa 360
gatcaccaac agccgtcctc cctgcgtcat cctgtgactg cacaggactc tgggttcctg 420
ctctgttctg ggttccaaac cttggtctcc ctttggctct gctgggagct cccctgcct 480
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aaagaaggaa tagaagattc cgtggccttg ggggcaggag agagacactc tccatgaaca 600
cttctccagc cacctcatac ccccttccca gggtaagtgc ccacgaaagc ccagtcact 660

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cttcgcctcg gtaataacctg tctgatgcc aagatatttat ttattctccc ctaaccacagg 720
gcaatgtcag ctattggcag taaagtggcg ctacaaacac taaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atntnggggg ggggcccccc 840
cccccc 845

<210> 125

<211> 1656

<212> DNA

<213> Homo sapiens

<400> 125

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tgctgcagct ggaggagctc ccccggtgctg agggggctgc tgttgacagga ggccctggga 180
gcagtgcggg gccccacct cccartgagg aggctgctga gccagaggcc agactggcgg 240
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tgctgcaaga rgactcgcg tccggcacag gctccgcagc ctccgggctcc ttgggctctg 360
gcttgggctc tgggtctggt tcaggctccc atgaaggggg cagcacctca gccagcatca 420
ctcgagcag ccagagcagc cacacaagca aatactttgg cagcatcgac tcttcgagg 480
ctgaggctgg ggctgctcgg ggccggggctg agcctgggga ccagggtgatt aagtacgtgc 540
tccaggatcc catttggtctg ctcatggcca atgctgacca gcgcgtcatg atgacctacc 600
agggtgcctc cagggacatg acctctgtgc tgaagcagga tcgggagcgg ctccgagcca 660
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cctgggtccg gaagggccaa ctgcctcggg ctcttgatgt gatggcctgt gtggactgtg 780
ggagcagcac ccaagatcct ggtcacctg atgacccact cttctcagag ctggatggac 840
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gaaactgcac cagctagact ccattctggg accatctcca ggagtccatg agaggctttc 1080
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tgaccatgg agtccctgg gctgccctc aggtgggacc caggcgttct cagctgtacc 1560
ctctgcgat ggcatttgtg tttttgatat ttgtgtctgt tactactttt ttaatacaaa 1620
aagataaaaa cgcccaaaaa aaaaaaaaaa aaaacc 1656

<210> 126

<211> 837

<212> DNA

<213> Homo sapiens

<400> 126

tggacgttgg ccctgtttgc tttttataaa ccaaactcta tctgaaatcc caacaaaaaa 60
aatttaactc catatgtgtt cctcttgttc taatctgtc aaccagtgc agtgaccgac 120
aaaattccag ttatttattt ccaaaatgtt tggaaacagt ataattgac aaagaaaaat 180
gatacttctc ttttttggct gttccaccaa atacaattca aatgcttttt gttttatttt 240
tttaccaatt ccaatttcaa aatgtctcaa tgggtgctata ataaataaac ttcaacactc 300

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tttatgataa caacactgtg ttatatctct tgaatcctag cccatctgca gagcaatgac 360
tgtgtccacc agtaaaagat aacctttctt tctgaaatag tcaaatacga aattagaaaa 420
gccctcccta ttttaactac ctcaactggt cagaaacaca gattgtattc tatgagtccc 480
agaagatgaa aaaaatttta tacgttgata aaacttataa atttcattga ttaatctcct 540
ggaagattgg tttaaaaaga aaagtgtaat gcaagaattt aaagaaatat ttttaaagcc 600
acaattatth taatattgga tatcaactgc ttgtaaagggt gctcctcttt tttcttgtca 660
ttgctggtca agattactaa tatttgggaa ggctttaaag acgcatgtta tgggtgcta 720
gtactttcac ttttaaactc tagatcagaa ttgttgactt gcattcagaa cataaatgca 780
caaatctgt acatgtctcc catcagaaag attcattggc atgccacagg ggattct 837

```

<210> 127

<211> 1217

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<400> 127

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gtacgcggag gctgcgggac cggrcctggc tgacttaatc ttcgttcccc acacatttgt 120
ttccgcagtt cgaagcccag ttgggcccag caggtggagg aggaggggga ggacgacaaa 180
tgtgtcacca gcgagctcct caaggggagc cctctggcca caggtgacac cagcccagag 240
ccagagctac tgccgggagc tccactgccg cctcccaagg aggtcatcaa cggaaacata 300
aagacagtga cagagtacaa gatagatgag gatggcaaga agttcaagat tgtccgcacc 360
ttcaggattg agaccgggaa ggcttcaaag gctgtcgcaa ggaggaagaa ctggaagaag 420
ttcgggaact cagagtttga ccccccgga cccaatgtgg ccaccaccac tgtcagtgc 480
gatgtctcta tgacgttcat caccagcaaa gaggacctga actgccagga ggaggaggac 540
cctatgaaca aactcaaggg ccagaagatc gtgtcctgcc gcactctgca gggcgaccac 600
tggaccacc gctgccccta caaggatacg ctggggccca tgcagaagga gctggccgag 660
cagctgggac tgtctactgg cgagaaggag aagctgccgg gagagctaga gccggtgcag 720
gccacgcaga acaagacagg gaagtatgtg ccgccgagcc tgcgcgacgg ggccagccgc 780
cgcggggagt ccatgcagcc caaccgcaga gccgacgaca acgccaccat ccgtgtcacc 840
aacttgtcag aggacacgcg tgagaccgac ctgcaggagc tcttccggcc tttcggtccc 900
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atcagcttcc accgccgga ggatgctgcg cgtgccattg ccggggtgtc cggctttggc 1020
tacgaccacc tcatcctcaa cgtcgagtgg gccaaagcgt ccaccaacta agccagctgc 1080
cactgtgtac tcggtccggg acccttggcg acagaagaca gcctccgaga gcgcgggctc 1140
caagggaat aaagcagctc cactctcnna aaaaaaaaaa aaaaaaaaaa ggcggccgct 1200
cgcgatctag aactagc

```

1217

<210> 128

<211> 1349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1133)

<223> n equals a,t,g, or c

<400> 128

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tggacgcgtg ggtggcggcc ggaggaggag taggtgcggg tgaagatggc ggcagcngag 60
gccgcgaact gcatcatgga ggtgtcctgt ggccaggcgg aaagcagtga gaagcccaac 120
gctgaggaca tgacatccaa agattactac tttgactcct acgcacactt tggcatccac 180
gaggagatgc tgaaggacga ggtgcgaccc ctcaactacc gcaactccat gtttcataac 240
cggcacctct tcaaggacaa ggtggtgctg gacgtcggct cgggcaccgg catcctctgc 300
atgtttgctg ccaaggcggg ggcccgaag gtcatcggga tcgagtgttc cagtatctct 360
gattatgcgg tgaagatcgt caaagccaac aagttagacc acgtggtgac catcatcaag 420
gggaagggtg aggaggtgga gctcccagtg gagaagggtg acatcatcat cagcgagtgg 480
atgggctact gcctcttcta cgagtccatg ctcaacaccg tgctctatgc ccgggacaag 540
tggctggcgc ccgatggcct catcttccca gaccgggcca cgctgtatgt gacggccatc 600
gaggaccggc agtacaaaga ctacaagatc cactggtggg agaacgtgta tggcttcgac 660
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gggttttagg ggcttgggct ggggggatgg ggagggcaca tcgtgactgt gtttttcata 1260
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                     1349
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<210> 129

<211> 2318

<212> DNA

<213> Homo sapiens

<400> 129

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gcacggctcc gggtagccat ggaggacccc acgctctata ttgtcgagcg gccgcttccc 180
gggtaccccc acgccgaggg cccggagcct tctccgctg gggctcaggg agcggaggag 240
ccgtcggggg ccggctcaga agagctgata aagtcggacc aggtgaacgg cgtgctggtg 300
ctgagcctcc tggacaaaat catcggggcc gtagaccaga tccagctgac tcaagcacag 360
ctggaggagc ggcaggcggg gatggagggg gcagtgcaga gcatccaggg cgagctgagc 420
aagctgggca aggcgcacgc accacgagca atacggtgag caagctgctg gagaagggtg 480
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```

gcaaggctcag cgtcaacgtg aagaccgtgc gcggcagcct ggagcgccag gcggggcaga 540
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tctaccagga tgaagtgaag ctgccggcca aactgagcat cagcaaatcg ctgaaagagt 660
cggaggcgct gccagagaag gagggcgagg agctgggcga gggcgagcgg cccaggagga 720
cgcagcgcgct ctgsagcttt cgtcggacga ctgcggcgcg tggacgactt caagaaggcc 840
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gccgaggtgg gcggtcacc tgaagtcagg agttcgggac cagcctggca aacacccat 2160
ctctactaag cgaaaacca tctctactaa aattacaaa attagctggg catggttgcg 2220
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ggaggtggga ggttgacgtt gagccaaggt tcgcgaca 2318

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<210> 130

<211> 2149

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1518)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2147)
<223> n equals a,t,g, or c

<400> 130
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ccacgcgtcc ggagaaggca gacgcacccc gaactcgctg gaggacaagg ctcagctctt 120
gccaggccaa attgagacat gtctgacaca agcgagagtg gtgcaggtct aactcgcttc 180
caggctgaag cttcagaaaa ggacagtagc tcgatgatgc agactctgtt gacagtgacc 240
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ctcgggaggc acctgccacc caggcctcrt ctactactca gctgactgat acccagggtc 420
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<210> 131
<211> 1020

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1019)
<223> n equals a,t,g, or c

<400> 131
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<210> 132
<211> 2319
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2246)
<223> n equals a,t,g, or c

<400> 132
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ttgggaccgg cggtgatgc aggatgacaa ccggggccta ggccaagggc tcaaggacaa 180

```

caagagaacc tgcaaccgtt tccgcctcct gctagagcgg cgaaccrtgg gcagtgaagg 240
ccaagatagc cactctacca gctacccatc cctcctcagc cacctgacct ccatgtacct 300
gaacgccccg gcgctcgctc tgctgtagc caggatgcag ctcccaggcc ctggtctgcg 360
ctcatttcat cctctggctt cctcactgcc ctgtgacttc cacctgctca acctacgtac 420
gctccaggct gaggaggaca ccctaccctc ggaggagacc gcactcatct tacaccgcaa 480
ggttttgact gcggcctgga ggcaagaact tgggcttcaa ctgcaccaca agccaaggca 540
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taagaatcaa ctgaagacct gttaagagta ttctgtaagt caaccatg atacacatca 2160
tgttctgtc cacatactgg ttttcccaa atcagctgat aaatteagt taattccaat 2220
gagatgaaac tttggaattg acagtnctaa agtgcatgg gagagtgaat gtgtgagaac 2280
actaagacca ctctgaacga tgataatgag tttgggggt 2319

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<210> 133

<211> 1373

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 133

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cgcgaccgga agtccgtcac tctcgcgagg ccccagagag caggcgctgg gcagtgtgga 60
ggtcgttggg gtcacttccg cgtcaccagc tcctgtgcct gccagtcggg gccctccccg 120
ctccagccat gctctccgc ctcgcccggc ctgccagcgc tgctctccgc cgcagcttca 180

```

```

gcacctcggc ccagaacaat gctaaagtag ctgtgctagg ggcctctgga ggcacgcggc 240
agccactttc acttctcctg aagaacagcc ccttggtagag ccgcctgacc ctctatgata 300
tcgcgcacac acccggagtg gccgcagatc tgagccacat cgagacccaaa gccgctgtga 360
aaggctacct cggacctgaa cagctgcctg actgcctgaa agnttgtgat gtggtagtta 420
ttccggctgg agtccccaga aagccaggca tgacccgga cgacctgttc aacaccaatg 480
ccacgattgt gcccaccctg accgctgcct gtgccagca ctgcccgga gccatgatct 540
gcgtcattgc caatccggtt aattccacca tccccatcac agcagaagtt ttcaagaagc 600
atggagtgtg caaccccaac aaaatcttcg gcgtgacgac cctggacatc gtcagagcca 660
acacctttgt tgcagagctg aagggtttgg atccagctcg agtcaacgtc cctgtcattg 720
gtggccatgc tgggaagacc atcatcccc tgatctctca gtgcaccccc aaggtggact 780
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aagccgttgc agataaactt tgtattttta tttgcttttg tgatgattac tgtattgaca 1260
tcatcatgcc ttccaaattg tgggtggctc tgtgggcgca tcaataaaaag ccgtccttga 1320
ttttattttt caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1373

```

<210> 134

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 134

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ggaacaagtg cctgtagtgt gtttggatct gtaccctacg actgattata cgggtgaatgt 60
gacctgctg agatctccta agcggcactc agtcaaataa caatagcaac tccccagca 120
gtaaaacaga ccatcagtaa catttcagga tttaatgaaa cctgcttgag atggagaagc 180
atcaagacag ctgatatgga ggagatgtat ttattccaca ttggggcca gagatggtat 240
cagaaggaat ttgccagga aatgaccttt aatcagta gcagcagccg agatcccag 300
gtgtgcttgg acctacgtcc gggtagcaac tacaatgtca gtctccggc tctgtcttcg 360
gaacttctc tggatcatct cctgacaacc cagataacag agcctcccct cccggaagta 420
gaatttttta cgggtgcacag aggacctcta ccacgcctca gactgaggaa agccaaggag 480
aaaaactggc caatcagttc atatcaggtg ttagtgcttc ccctggccct ccaaagcaca 540
tttcttgtg attctgaagg cgcttctctc ttctttagca acgcctctga tgcgtatgga 600
tacgtggctg cagaactact ggccaaagat gttccagatg atgccatgga gatacctata 660
ggagacaggc tgtactatgg ggaatattat aatgcaccct tgaaaagagg gagtgattac 720
tgcattatat tacgaatcac aagtgaatgg aataagggtg gaagacactc ctgtgcagtt 780
tgggctcagg tgaaagattc gtcactcatg ctgctgcaga tggcgggtgt tggactgggt 840
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aggagaaaac tcaggaattc tgagtcttcc ctgctacagg accagttctg tgcaatgaac 1140
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gaatctctgc aacctcctat ataaaagcat ttctgttaat tcattcagaa tccattcttt 1320
acaatatgca gtgagatggg cttaagtttg ggctagagtt tgactttatg aaggaggtca 1380
ttgaaaaaga gaacagtgc gtaggcaaat gtttcaagca ctttagaaac agtacttttc 1440

```

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ctataattag ttgatatact aatgagaaaa tatactagcc tgccatgccataaagtgtcc 1500
tgctgtgtct gttaggcagc attgctttga tgcaatttct attgtcctat atattcaaaa 1560
gtaatgtcta cattccagta aaaatatccc gtaattaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggcggcc 1657

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<210> 135

<211> 2360

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2353)

<223> n equals a,t,g, or c

<400> 135

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attgaccaa gcaatggtga tggagaagcc tagtccctg ctggtcgggc gggaatttgt 180
gagacagtat tacacactgc tgaaccagcc cccagacatg ctgcatagat tttatggaaa 240
gaactcttct tatgtccatg ggggattgga ttcaaatgga aagccagcag atgcagtcta 300
cggacagaaa gaaatccaca ggaaagtgat gtcacaaaac ttcaccaact gccacaccaa 360
gattcgccat gttgatgctc atgccacgct aaatgatggt gtggtagtcc aggtgatggg 420
gcttctctct aacaacaacc aggcctttgag gagattcatg caaacgtttg tccttgctcc 480
tgaggggtct gttgcaaata aattctatgt tcacaatgat atcttcagat accaagatga 540
ggtctttggt gggtttgtca ctgagcctca ggaggagtct gaagaagaag tagaggaacc 600
tgaagaaaga cagcaaacac ctgaggtggt acctgatgat tctggaactt tctatgatca 660
ggcagttgtc agtaatgaca tggaagaaca tttagaggag cctgttgctg aaccagagcc 720
tgatcctgaa ccagaaccag aacaagaacc tgtatctgaa atccaagagg aaaagcctga 780
gccagtatta gaagaaactg cccctgagga tgctcagaag agttcttctc cagcacctgc 840
agacatagct cagacagtac aggaagactt gaggacattt tcttgggcat ctgtgaccag 900
taagaatctt ccacccagtg gagctgttcc agttactggg ataccacctc atgttggtta 960
agtaccagct tcacagcccc gtccagagtc taagcctgaa tctcagattc caccacaaag 1020
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cagaccaatc cgtgaggctg gtgagcaagg gtgacattgaa cccgaagaa tgggtgagaca 1140
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attacccaat tttggttttg ttgtgtttga tgattctgag cctgttcaga aagtccttag 1320
caacaggccc atcatgttca gaggtgaggt ccgtctgaat gtcgaagaga agaagactcg 1380
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tgggctgggt ggtggaatga gaggccctcc ccgtggaggc atggtgcaga aaccaggatt 1500

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tggagtgagg arggggnttg cgccacggca gtgaatcttc atggatcttc atgcagccat 1560
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ggaatgtctt gcatattact gacatttggt atgtttcatt cattggaata tttcttattt 1920
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aaatttaaat tgtgataata ggttttaaat gtctagaatg caactgatag gcttttcttg 2220
aactgttagt ttttttgaag tagtttttcc cakgtttaat ttgtatttgg ttaaaaaaac 2280
maaaaggcca aaaattcccc aaaaccccggt ttaaccacca grgscaaacn gttgtggcct 2340
tccaatttaa cntgggatt 2360

<210> 136

<211> 1042

<212> DNA

<213> Homo sapiens

<400> 136

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cccgcggcg ctgctgagtt tcttcatcta caaccgcgc ttcgggcccgc gcgaaggaca 180
ggaggaaaat aagattttat tttatcatcc aaatgaggta gaaaagaatg agaagattag 240
aaatgtcggg ttgtgtgaag ctattgtaca gtttacaagg acatttagcc catcaaaacc 300
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cgtcaagctt ctgaaagaaa gattagagaa attcttccat cggattttgc aaacgctaca 600
tttgacgtca tgtgacctac ttgacatttt tgggtggaatc agcttcttcc cgttgataa 660
aatgacttat ttgaaaatcc agtcctttat taatagaatg gaggaagcc tgaatatagt 720
caaatacact gcttttctct ataacgatca gctcatctgg agtggattag aacaagatga 780
catgagaatt ttatacaaat accttaccac ctccctttty ccaaggcaca tcgaacctga 840
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aagatttctt accggacctt tgaacctcaa tgatccagat gcaaatgca gattcccaaa 960
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agaaagaacc ccagttttaag tt 1042

<210> 137

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 137

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gcggagcggg gccgcgggg cctctccagg gccgcagcgg cagcagttgg gccccccgcc 120
ccggccggcg gaccgaagaa cgcaggaagg gggccggggg gaccgcccc cggccggccg 180
cagccatgaa ctccaacgtg gagaacctac cccgcacat catccgcctg gtgtacaagg 240

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aggtgacgac actgaccgca gacccacccg atggcatcaa ggtctttccc aacgaggagg 300
acctcaccga cctccaggtc accatcgagg gccctgaggg gaccccatat gctggaggtc 360
tggtccgcat gaaactcctg ctggggaagg acttcctgc ctccccaccc aagggctact 420
tcctgaccaa gatcttcac ccgaacgtgg gcgccaatgg cgagatctgc gtcaacgtgc 480
tcaagaggga ctggacggct gagctgggca tccgacacgt actgctgacc atcaagtgcc 540
tgctgatcca ccctaacccc gagtctgcac tcaacgagga ggcgggccgc ctgctcttgg 600
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<210> 138

<211> 1490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1487)

<223> n equals a,t,g, or c

<400> 138

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caagacagta aggattcaaa ccatttgcca aaaatgagtc taagtgcatt tactctcttc 120
ctggcattga ttgggtgtac cagtggccag tactatgatt atgattttcc cctatcaatt 180
tatgggcaat catcaccaaa ctgtgcacca gaatgtaact gccctgaaag ctaccaagt 240
gccatgtact gtgatgagct gaaattgaaa agtgtaccaa tgggtgcctcc tggaatcaag 300

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III

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tatctttacc ttaggaataa ccagattgac catattgatg aaaaggcctt tgagaatgta 360
actgatctgc agtggctcat tctagatcac aaccttctag aaaactccaa gataaaaggg 420
agagttttct ctaaattgaa acaactgaag aagctgcata taaaccacaa caacctgaca 480
gagtcctgtg gcccaattcc caaatctctg gaggatctgc agcttactca taacaagatc 540
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<210> 139

<211> 1684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1659)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1682)

<223> n equals a,t,g, or c

<400> 139
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aaaagtga aa taaatagga agatcatcag tcaaggaaga cccactggag aggacagaaa 480
atgaagcagt gttttatcat gtgtatttca gcagggtctt ttgaaattta actaaaaata 540
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tttcttttac ttatggcttt ttgcattatc cagttttcct gacagcttgt atagattatt 900
gcctgaattt ctctaaaaca accaagcttt catttaagtg tcaaaaatta ttttatttct 960
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cnac 1684

<210> 140
<211> 427
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<400> 140
ggacttcttc ccagcacatt cctgcactct gccgtgtcca cactgccccca cagacccagt 60
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gcaggcagcc ctgggctggg ggtaggggac tccctacagg cagcgagccc tgagacctca 180
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accagccctg ctggccctg gtccgctgg cccccagat gcctggctga gacacgccat 300
 ggcccttcag ctggccca cytyttcccg gscctggaa kttggcaytg cagcagacag 360
 ytccytgggc accagrcagy taacaggaca cagcngccag cccaaacagc agcgggnatg 420
 ggggcag 427

<210> 141

<211> 889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (698)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<400> 141

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 ccgttgggga aggattgaat acagagacgc tgtctgcttg ctgccttaag acagctagct 180
 gaattgctga ttaactttta aaataccag cttggtttat tttctttaga atctgttgct 240
 aagactgggg acgctgtttt cttttacaaa gggaaatcta agttaatttc aaggcatttcg 300
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 catttttcgg agggccaac ccctttgaaa tttcttttg aagacgaatg ggtgggtgta 660
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<210> 142

<211> 1505

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1493)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1499)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1500)
 <223> n equals a,t,g, or c

<400> 142
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 acttcacgca gcaaaagcgc cccccgtcta tatcatatcg cctctcggtc ctcttaaaag 180
 tcgtatgaga tggagctgga ggaggggaag gcaggcagcg gactccgcca atattatctg 240
 tccaagattg aagaactcca gctgattgtg aatgataaga gccaaaacct ccggaggctg 300
 caggcacaga ggaacgaact aaatgctaaa gtgcgcctat tgcgggagga gctacagctg 360
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 aagtgagtgg acagcctttg tgtgtatctc tccaataaaag ctctgtgggc caagtcaaaa 1440
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 ccccc 1505

<210> 143
 <211> 1235
 <212> DNA
 <213> Homo sapiens

<400> 143
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gagacaggac cgggcgagcc ctggggcggc ggccgctcct gcactttctc ccctcccca 1140
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1235

<210> 144

<211> 1420

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1410)

<223> n equals a,t,g, or c

<400> 144

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actcacagcc catctgatct gttcaaagct gtcttttcca cctgctgaaa ttcattaaat 180
cactggaggg atgcataatg aatggagaat gagtgaactt ccaatgcaac ttggattcac 240
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aaccacagaa cttagagtgt gctggttagt cacataactt agtagcagga ttgtgtatcc 420
aggcacaaaag gtgtctttgc taatgtttctc ttgtacctg ccctgcttca aacgctaaat 480
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gataggtgga tgggagaggg atggataatt ttatctctg ggccacagag ctggcagccc 1320
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<210> 145

<211> 1919

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1882)

<223> n equals a,t,g, or c.

<220>

<221> misc feature.

<222> (1898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1919)

<223> n equals a,t,g, or c

<400> 145

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ggggagcgcg tgggatggcg cgtcggggcc ccgskagtac aaagcgggcg acctggctct 180
cgccaagatg aagggtacc cgcactggcc ggcccggatt gatgaactcc cagaggcgct 240
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actggctacc aggcaattca gcaacagagc tcttcagaaa ctgagggaga aggtggaaat 480
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cagaaaacca gtgaaggagc ctaactacca taatgaatgc tgcatattaa gagaaaccac 780
aagaaggtta tatgtttggt tgtctaatat tcttggattt gatatgaacc aacacatagt 840

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tgtattgttt ttacagaata aatttattgg aatgtgwact ggggagtaag atttgaggtt 1860
gtaagcaaac taagttagtg tnaattggcc tccaatangt aacgtggagg cattaatgn 1919

<210> 146

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (925)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<400> 146

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tgactggtca atatcttaaa aatgtatatt agtaagaagt tcttcctgga attttctttt 120
cgattctggc agaataaaca ggtgttttta gttttccac tgtctgagcc aagcaggacc 180
ctgtcccaga gcaagagatg tccccttcca tctctgaccc ttgcctggga caagctttaga 240
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atttctggtg ggatatgcct tccagtgcc aagggccact caccatgc atctctgtcc 420
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<210> 147

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 147

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tgttctgtaa gccacacagt atgcctgcag aagctgctta tcggagccaa atataattgt 180
cagtacaatt taaagaccac tatgtgtccc cggagaccaa cctgtttatt tccctgaaaag 240
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gacgcgtggg cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg 480
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514

<210> 148

<211> 2058

<212> DNA

<213> Homo sapiens

<400> 148

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2058

<210> 149

<211> 1781

<212> DNA

<213> Homo sapiens

<400> 149

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taactcccag ggggttgact ggtggggtaa ctgagcctgc tttgcagtag gtcaccctgc 180
caacaagct aatatggaaa ccacatgtaa cttagccaga ctataccttg ttagcttca 240
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<210> 150

<211> 1709

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (1678)

<223> n equals a,t,g, or c

<400> 150

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<210> 151

<211> 922

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (906)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (915)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (922)

<223> n equals a,t,g, or c

<400> 151

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cacctcgggg acattattgc gcgtggaacg gctgcttttg gaagactatt gcccagaaga 180
aaagatgttt ggttttcaca agccaaagat gtaccgaagt atagagggct gctgtatttg 240

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<210> 152

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (594)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (616)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

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gcaggcgcgc ccctggagga tgaggccact ctgggccagt gcgggggtgga ggccctgact 300
accctggaag tagcaggccg catgcttgga ggtaaagtcc atggttcctt ggcccgtgct 360
ggaaaagtga gaggtcagac tcctaagggt gcaaacagg agaagaagaa gaagaagaca 420

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taaaaaagcc acttagttca aaaaaaaaaa aaaaaamtgc gggggggccc gkancccaat 600
ttscctcata gggngncgtt taaattcntt ggcgg 635

<210> 153

<211> 2328

<212> DNA

<213> Homo sapiens

<400> 153

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gagaaccgcg ccgcgccttc ggccccgcgc aagccccgcc gcgccatgtc ttcgcctccc 180
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<210> 154
<211> 1268
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<400> 154
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<210> 155
<211> 4299
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2813)
<223> n equals a,t,g, or c

<400> 155
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<210> 156

<211> 1006

<212> DNA

<213> Homo sapiens

<400> 156

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<210> 157

<211> 1686

<212> DNA

<213> Homo sapiens

<400> 157

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cctagggctc cggagagcgc ccggagggaa ccgcctggcc ttcggggacc accaattttg 180
tctggaacca ccctcccggc gtatcctact ccctgtgccg cgaggccatc gcttacttgg 240
aggggtcgat ttgtgtgtag tttggtgaca agatttgcac tcacctggcc caaacctttt 300

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<210> 158

<211> 4147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4146)

<223> n equals a,t,g, or c

<400> 158

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<210> 159

<211> 1242

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<400> 159

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gatcctgtct gcagtcacat ctttgtggg cctgctgacc cacaagcttt tgttctctca 780
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanngggg gg 1242

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<210> 160

<211> 2229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2226)

<223> n equals a,t,g, or c

<400> 160

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gttgctnag gctggtttcg gattcctggg ctcaagtgat cttccacct aggtttcca 180

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ncaatattat taaaatactc atttggaata gaattccata tgggttaacc agagtactgt 360
tgggatggtt gtggctatct gcacgtagca gatttcctgc ttttattcaa agmcaatatt 420
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2229

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<210> 161

<211> 1920

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<220>
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<222> (1755)
<223> n equals a,t,g, or c

<220>
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<222> (1766)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1832)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1841)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1915)
<223> n equals a,t,g, or c

<400> 161
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<210> 162

<211> 2619

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2546)

<223> n equals a,t,g, or c

<400> 162

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<211> 1419

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

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<222> (697)

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<222> (1187)

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<400> 163

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<210> 164

<211> 3810

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2523)

<223> n equals a,t,g, or c

<400> 164

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<211> 817

<212> DNA

<213> Homo sapiens

<400> 165

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<211> 1578

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 166

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<210> 167

<211> 1694

<212> DNA

<213> Homo sapiens

<400> 167

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<210> 168

<211> 1636

<212> DNA

<213> Homo sapiens

<400> 168

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1636

<210> 169

<211> 667

<212> DNA

<213> Homo sapiens

<400> 169

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667

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<211> 3598

<212> DNA

<213> Homo sapiens

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<211> 940

<212> DNA

<213> Homo sapiens

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<222> (12)

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<222> (919)

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<211> 1458
<212> DNA
<213> Homo sapiens

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1458

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<211> 2709

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

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<222> (2659)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (2670)

<223> n equals a,t,g, or c

<400> 173

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<210> 174

<211> 1013

<212> DNA

<213> Homo sapiens

<400> 174

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<210> 175

<211> 1697

<212> DNA

<213> Homo sapiens

<400> 175

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<210> 176

<211> 1409

<212> DNA

<213> Homo sapiens

<400> 176

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cccgggctgc aggaattccg ctgctggcct ggggttggtg ttgaggccgg gtctccgctc 180
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aggcggttt gctgctggg aatttacttc tgctgcattg tgtgtctcgg agccactcgc 300
aaaatgcgac cgctgagcct gagctcacat ccgctggcgc cggccagccg gagggccccg 360

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<210> 177

<211> 1503

<212> DNA

<213> Homo sapiens

<400> 177

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cgcttagaaa tgtatgtcca ggtatgaaag aaccttttta aaatggctgg ttgttccaga 300
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aaa 1503
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<210> 178
<211> 1378
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<400> 178
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actttattct tctggtgagc tccctgaata tttatttttc tgattataaa tttcttatat 180
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gtatatTTTT gaatgctrta cttggcataa catagattaa aatcataatg catgactaaa 300
aactccttgg atttatttcc cattttaaaa tttttagcgg taagttcaga tttataatct 360
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acaaactttt tttgtcatt aaacaatata gtataacaac tatttacaaa gcatttacat 600
tgtattagct attataggta atctagagat gatttaaagt gtatggtagg atgtgcacag 660
gttatatgca aatactacac cattttctat aagggaactg aacatcatgg acttttagtat 720
cctagggggg tcttgggaacc catcacccat aggggcacca taggacaact atagtaccgt 780
gtttatttcc tattaattca ggttccggtt agagtctaaa actaaaacct aatcatttag 840
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cattttctaa ttagaagtca catgataaat ataatcagta tagtaataat accataatgt 1320
gcacatactc aataaataaa tgactgcatt gttgtaaaaa aaaaaaaaaa aaaaaaaa 1378

<210> 179
<211> 2251
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2020)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2050)

<223> n equals a,t,g, or c

<400> 179

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ctcccgccgc cccttcaccc cgacctggcc gcggagccgc gagcgtgaag ccgccgcctt 180
ccgggaaagt cttaatagac atcgatactt gaattcttta tttcccagtg aaaactccac 240
cgccttctat ggaataaatac agttttccta tttgtttcct gaagagttaa aagccattta 300
tttaagaagc aaaccttcca agttttccag atactcagca gaagtacata tgtccatccc 360
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ttatgcaata aagggaagc ccctggaaga cctaagtgtc cagcaggtca ttgactgttc 540
gtataataat tatggctgca atggaggctc tactctcaat gctttgaact ggttaaaca 600
gatgcaagta aaactggtga aagattcaga atatcctttt aaagcacaaa atggtctgtg 660
ccattacttt tctggttcac attctggatt ttcaatcaaa ggttattctg catatgactt 720
cagtaccaca gaagatgaaa tggcaaaaagc acttcttacc tttggccctt tggtagtcat 780
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<210> 180

<211> 1000

<212> DNA

<213> Homo sapiens

<220>

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<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<400> 180
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actgtttgga ttttaattgt gatgcagaag ttatagtaac aaacatttgg tttgtacag 900
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aaaaaaaaaa aaaaaaaaaa maaaaaaggg gggggccccc 1000

<210> 181
<211> 1429
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1407)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1420)
<223> n equals a,t,g, or c

<400> 181
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gccccgcacg ggctgtcttg gtgtccgcca tccagggtct ggcagagcct ctgagatgat 120
gcatgatgcc ctccccctcag cgcaggctgc agagcccggc cccacctccc tgcgcccttg 180
aggggccccca gcgtctgcag ggtgacgcct garacagcac cactgctgag gagtgaggac 240
tgtcctccca cagacctgca gtgagggggc ctccatgcgc agatgagggg ccactgacct 300
acctgcgctt ctgctggagg aggggaagct gggcccaaaag gccmgsgrag gcagcgtggg 360
ctctgccaat gtgggctgcc cctcgcacac agggctcaca gggcaggcct tgctggggtc 420

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<210> 182

<211> 2725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2713)

<223> n equals a,t,g, or c

<400> 182

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2725

<210> 183

<211> 1751

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1617)

<223> n equals a,t,g, or c

<400> 183

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cgggagaggt ccttcaactgt gtgtacacag caagagcatg tgtgtgccac ttcctcacc 1680
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aaaaaaaaa a 1751

<210> 184

<211> 2200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2096)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2157)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2181)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2184)
 <223> n equals a,t,g, or c

<400> 184
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 ccactactgc ttccccgaaa cagacaaata tatgagcaca acgaagctgc cctattcatg 180
 gaccacagcg ggatgctggt gatgcttcct tttagacctgc ggatcccttt tgcaagatat 240
 gtggcaagaa ataatatatt gaatttataa cgatactgca tagaacgtgt gttcaggccg 300
 cgcaagttag atcgatttca tcccaaagaa cttctggagt gtgcatttga tattgtcact 360
 tctaccacca acagctttct gccactgct gaaattatct acactatcta tgaaatcatc 420
 caagagtttc cagcacttca ggaaagaaat tacagtattt atttgaacca taccatgtta 480
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 aatctgtctt tgtcttctaa tagtctgtgt cgactctaca agtttattga acagaaggga 660
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<210> 185
 <211> 1987
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 185

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agtctgtccc aggtgtgtgt ggagcatcac aaacacatca gaagcccaa aatggagaga 240
aaaaagaaga gaggctaact gaaaggaaga gggagcagag caagaaaaaa aggaagacga 300
tgacttcaga aattgcttcc caagaagaag gtgctactat acagtggatg tcatctgtag 360
aagcaaagat tgaagacaaa aaagttcaga gagaaagtaa actaacttcc ggaaagttgg 420
agaatctcag aaaagaaaag ataaacttct tgcggaataa acacaaaatt cactccaag 480
gaaccgatct tcctgaccca attgctacat ttcagcaact tgnaccagga atataaaatc 540
aattctcgac tacttcagaa cattctagat gcaggtttcc aaatgcctac gccaatccaa 600
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gttgatctg agaccgaaa acttctggcc gtgagagaac ttgttaaaaa gggtttcaat 1260
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ttcttagaaa aagctaagga taaacagaaa aaggtcactg gtcagaacag caagaagaaa 1800
gtagctcttg aagacaaaag ttaaaaacag actttaaaaa tactgtcca gaaatgtaat 1860
tttatgatcc cagcatgaat gttattttca tggaaactt gaagtcttac agtcacctgt 1920
accaaacatt tgaaatcaac tacaagtaca tgggactggg gataaatgat cctaaactat 1980
caagtca
```

1987

<210> 186

<211> 1737

<212> DNA

<213> Homo sapiens

<400> 186

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tgatcctggg taaaatggat gatttttcat tgaaagtttt gctgattaac aattaaagt 120
ggatgatatg tgggcaaaat cacttatgaa agtagaagca agaatacgtt ggtttgctac 180
cacataaagc catgctgttt ttggtcaaac tgtgtaaact ggaaaaattc acatcatttc 240
tgagtttaat cacttttaga tatattcaca ttgttttggt gaatttgctg aattgaattg 300
tttttctttc tcaaactctg gatctctttt ctttatcctg tttctttgtt cctttcgttt 360
```

```

gctttcttatt ttttcttttg ttccattctt ttcttacttt ttccctttt ccttttttgg 420
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aagggaataa aaagtctttt gaaggtagct atactagcac ttttgatcat ctccagggcc 540
cacaaaaatg ttgtcaagat tttaaagggt tataattctg cttaagctct agtttggact 600
taggtatcct aactatggtg gaggtatttg cattgtttta agttaggata aaagcaagtt 660
cctcctgtga ctgcaacgtc ttactgattg ggacagttgc caggaggata ccaacttgat 720
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tcaagtttgt ctccgcact aagatgtgag gaaattgtga ttgttctct ccaccacaaa 1560
tgaattacac atttattatc ttctatcatt ttgaaacact gcagtttacc atgggacact 1620
gtatatattt ctgccataa tggtaaagga ctgattgata tatttaagag ttaataaatt 1680
tgtgatttct gctgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1737

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<210> 187

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1132)

<223> n equals a,t,g, or c

<400> 187

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agatcctgga gtcccagagg cccctgcatg gcatccctgt agcccatcc agtggtgag 180
gaggctccag gcctgaggac caagggatgg cccgactcgg cggtttgagg aggtgagcag 240
gatattgtca cagcgcgccg cacaaccccc tcccgccgcc cccaaccacc cagggccacc 300
atcagacaac tccctgcatg caaaccccta gtaccctctc acaccgcac ccgcgcctca 360
cgatccctca cccagagcac acggcgcgg agatgacgtc acgcaagcaa cggcgctgac 420
gtcacatatc accgtggtga tggcgctcac tggccatgta gacgtcacga agagatatag 480
cgatggcgtc gtgcagatgc agcacgtcgc acacagacat gggaacttg gcatgacgtc 540
acaccgagat gcagcaacga cgtcacgggc catgtcgacg tcacacatat taatgtcaca 600
cagacgcggc gatggcatca cacagacggt gatgatgtca cacacagaca cagtgaacac 660

```

```
acacaccatg acaacgacac ctatagatat ggcaccaaca tcacatgcac gcatgccctt 720
tcacacacac tttctaccca attctcacct agtgtcacgt tcccccgacc ctggcacacg 780
ggccaaggtg cccacaggat cccatccccct cccgcacagc cctggggcccc agcacctccc 840
ctcctccagc ttcctggcct cccagccact tcctcacccc cagtgcctgg acccgagggt 900
gagaacagga agccattcac ctccgctcct tgagcgtgag tgtttccagg accccctcgg 960
ggccttgagc cgggggtgag ggtcacctgt tgtcgggagg ggagccactc cttctcccc 1020
aactcccagc cctgcctgtg gcccgttgaa atgttggtgg cacttaataa atattagtaa 1080
atccttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nn 1132
```

<210> 188

<211> 1267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<400> 188

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tggaaggcag ctatgcgact caccgtgctg tgtgctgtgt gcctgctgcc tggcagcctg 180
gccctgccgc tgcctcagga ggcgaggagg atgagtgagc tacagtggga acaggctcag 240
gactatctca agagatttta tctctatgac tcagaaacaa aaaatgccaa cagtttagaa 300
gccaaactca aggagatgca aaaattcttt ggctaccta taactggaat gttaaactcc 360
cgcgctcatg aaataatgca gaagcccaga tgtggagtgc cagatgttgc agaatactca 420
ctatttccaa atagcccaaa atggacttcc aaagtgttca cctacaggat cgtatcatat 480
actcgagact taccgcatat tacagtggat cgattagtgt caaaggcttt aaacatgttg 540
ggcaaagaga tccccctgca ttccaggaaa gttgtatggg gaactgctga catcatgatt 600
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ggaaatggag atccccaaaa ttttaaactt tcccaggatg atattaaagg cattcagaaa 900
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ctccttttaa ggataaactc ctttatgggtg tgactgtgtc ttattcatct atacttgag 1140
tggttagatg tcaataaatg ttacatacac aaataaataa aatgtttatt ccatggtaaa 1200
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaata 1267
```

<210> 189

<211> 3787

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<400> 189

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ggtcggcctg gaagcagcca agacggaaaa gcaantgtgt gaqcccgaac acccatgcaa 180
ggacaagaca cacaactgcc acaagcacgc ggagtgcac taactgggtc acttcagcga 240
cccatgtac aagtgcgagt gccagasagg ctacgcgggc gacgggtca tctgcgggga 300
ggactcggac ctggacggct ggccaacct caatctggtc tgcgccacca acgccaccta 360
ccactgcac aaggataact gccccatct gccaaattct gggcaggaag actttgacaa 420
ggacgggatt ggcgatgcct gtgatgatga cgatgacaat gacgggtgta ccgatgagaa 480
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3787

<210> 190

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 190

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gctgaggcat tttggagatc aaagatgggt agaaaagatg ctgctactat aaaacttcct 120
gttgatcagt acagaaaaca aattggtaaa caggattata aaaaaactaa acctatttta 180
cgagcaacca aattaaaagc agaagcaaag aaaacagcaa taggcataaa ggaagtggc 240
cttgacttg cagctatatt ggcactacta ctggctttct atgctttctt ttatctcaga 300
ctcaccacgg atgttgacct tgatctggac caagatgaag attagctaag caacaatcaa 360
tgcatgaaag agaaataact ttacgaaagc accttttggg accaaaactt tcaatactga 420
aactgtaaca tctttaattm tttctgctaa tattttcagt ttgcagacat atgatttttg 480

```


atagttgcat aggatgtcag gaaaagaacc ttacctagcn atgcagtata gtatgtgcta 540
cngggatact tgta 554

<210> 191

<211> 874

<212> DNA

<213> Homo sapiens

<400> 191

ggcacagacg ggatgaggcg ctgcagtctc tgcgctttcg acgccgcccg gggggcccagg 60
cggctgatgc gtgtgggcct cgcgctgac ttgtggggcc acgtgaacct gctgctgggg 120
gccgtgctgc atggcaccgt cctgcggcac gtggccaatc cccgcggcgc tgtcacgccg 180
gagtacaccg tagccaatgt catctctgtc ggctcggggc tgctgagcgt ttccgtggga 240
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caagaatcta tgatacagcc ttggctctct ggatcccttc tttgctcatg tctgcagggg 540
aggctgctct atctggttac tgctgtgtgg ctgcactcac tctacgtgga gttgggcccct 600
gcaggaagga cggacttcag gggcagctag aggaaatgac agagcttgaa tctcctaaat 660
gtaaaaggca ggaatagag cagctactgg atcaaaatca agaaatccgg gcatacacaga 720
gaagttgggt ttaggacagc aggtgctggt ccgagactca gtcctaaagg gtttttttct 780
ccactaagca aggggcccctg acctcgggat gagataacaa attgtaataa agtaacttct 840
cttttcttct aaaaaaaaaa aaaaaaaact cgag 874

<210> 192

<211> 2103

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<400> 192

tagtagtaaa caggtgggga ctccattgcc agcttggtgc cttatctact gggcagtcga 60
gttgggtgtc tcatgggcag aaataggttg taaagggtgg caactctcca ggtgagagag 120
agttttgtag caggactttt ggttgtaa atcgactattac caacctactg gtgggtgaga 180
gttcaagaaa cccatgaaaa aggacatagt ggaagatgaa gatgatgact ttctgaaagg 240
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ccgaagtcc tcaagtagtg tgggctcccc acccggtgtt tacatgcaac ccagtcacct 360
ctgacggcag aaatttgtga ctgagatgtg acatttggga ttccccatca cttgtcatgc 420
cctcagcacc cagcttgtgc cattgggcatt tgatggcatt gaactagagc gactgcctgc 480
ctcggctgtg gcacttccag gttcgactga atcaagcatc tgaagactgg gtttttttgt 540
tggtgtgtgt ccccttacag acaaaatgaa gactatcatg tgcaatcttt tacagtgggg 600
ttgatgatac atttggaagg atttgcttgt ttaatatgta cattttttgt gttaacagct 660
ttttgacaca attactgggt aatttcta ataggcagca gactgtttta cgggttgctg 720
ttttaacatg ggtttttgtc agatccatgg tcttaggact tgactgatga gctttcagt 780
aagaatcctc taagataaaa cttctattta aagactttaa ctagaaagt tttattttgg 840
ctacattgtt caccctctgc tgtattggta tttgtctgtt gggatttcaa gggagtgtag 900

agaagacaga aggaagctg agagctggcc cgacatgggc tgggacacag agttggagct 960
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atcataaata ttttgtaatg aaatacttcc tcttttcag ggtttgtat gcacttgat 1680
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gggttgggaa gtagtttta ttagaaaga catttacata taagtctgt taatttcaa 1980
ggagtgtgtg aaaaaaaatc catggtgaaa atgaaacaat gacatggta atctggaact 2040
tacgttctta taccaataaa aggtacctca atamaaaaaa aaaaaaaaaa accccggggg 2100
ggg 2103

<210> 193

<211> 1317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<400> 193

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ccttctgaag ttggaatctg taatgattta aaacatgaga ctggtccagt gggcttgttg 120
ctccagacct catgccttct gggaccaga catctctgca atctcgggaa ctggaataca 180
ccacttcttg tcaaggtact agcaagttgc cgtggataca gaaatctctg caggcaagtt 240
gctccagagc atattgcagg acaagcctgt aacgaatagt taaattcacg gcactctggat 300
tcctaatacct tttccgaaat ggcaggtgtg agtgccctgta taaaatattc tatgtttacc 360
ttcaacttct tgttctggct atgtggtatc ttgatcctag cattagcaat atgggtacga 420
gtaagcaatg actctcaagc aatttttggg tctgaagatg taggctctag ctccctacgtt 480

```

gctgtggaca tattgattgc tgtaggtgcc atcatcatga ttctgggctt cctgggatgc 540
tgcggtgcta taaaagaaag tcgctgcatg cttctgttgt ttttcatagg cttgcttctg 600
atcctgctcc tgcaggtggc gacaggtatc ctaggagctg ttttcaaadc taagtctgat 660
cgcattgtga atgaaactct ctatgaaaac acaaagcttt tgagcgccac aggggaaagt 720
gaaaaacaat tccaggaagc cataattgtg tttcaagaag agtttaaata ctgcggttg 780
gtcaatggag ctgctgattg gggaaataat tttcaacact atcctgaatt atgtgcctgt 840
ctagataagc agagaccatg ccaaagctat aatggaaaac aagtttaca agagacctgt 900
atctctttca taaaagactt cttggcaaaa aatttgatta tagttattgg aatatcattt 960
ggactggcag ttattgagat actgggtttg gtgttttcta tggctcctga ttgccagatc 1020
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gctttggctt tgtaaattta aatatgtaag tgctatataa gtcaggagca gctgtctttt 1140
taaaatgtct cggctagcta gaccacagat atcttctaga catattgaac acatttaaga 1200
tttgagggat ataagggaat atgatatgaa tgtgtatttt tactcaaaat aaaagtaact 1260
gtttacgttg aaaaaaaaaa aaargkcg ccgytytara gayccarctt actnnnc 1317

```

<210> 194

<211> 1252

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1240)

<223> n equals a,t,g, or c

<400> 194

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cagcgcgcgg cccgggcagc tcccgcctacg gacacctcag gcagtggcct tgtcgtcgaa 180
gtctggcctt tcccgcggcc ggaaagtgat gctgtcagcg ctgggcatgc tggcggcagg 240
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ccccccagc tatccgtggt ctcaccgtgg cctcctctct tccttggacc acaccagcat 360
ccggaggggg ttccagggtat ataagcaggt gtgcgcctcc tgccacagca tggacttcgt 420
ggcctaccgc cacctggttg gcgtgtgcta cacggaggat gaagctaagg agctggctgc 480
ggaggtggag gttcaagacg gcccacatga agatggggag atgttcatgc ggccagggaa 540
gctgttcgac tatttcccaa aaccataccc caacagttag gctgctcgag ctgccacaaa 600
cggagcattg cccctgacc tcagctacat cgtgcgagct aggcattggt gtgaggacta 660
cgtctctctc ctgctcagcg gctactcgca gccaccacc ggggtgtcac tgcgggaagg 720
tctctacttc aaccctact ttcctggcca ggccattgcc atggccctc ccatctacac 780
agatgtctta gagtttgacg atggcaccac agctaccatg tcccagatag ccaaggatgt 840
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ggcctcagct aagcctctct tcatctggaa gaagaggcaa gggggcagga gaccaggctc 1140
tagctctggg cctccttca gccccatca tgggaataaa ttaattttct caatgtaaaa 1200

```

aaaaaaaaaa aaaactcggg gggggcccg ncccaatttn cccttttggg gg 1252

<210> 195

<211> 1688

<212> DNA

<213> Homo sapiens

<400> 195

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ccccctgcgg gcgctcccat ggcacagttc gcgttcgaga gtgcctgca ctcgctgctt 120
cagctggatg caccatccc caatgcaccc cctgcgcgtt ggcagcaaaa gccaaaggaag 180
ccgcagcccg gccccctcac ccattggggc cgccaaccga tcccacagcg ccggcaggac 240
tccgggccga actcctggca aatccagttc caaggttcag accactocta gcaaacctgg 300
cggtgaccgc tatatcccc atcgcagtcg tgcccagatg gaggtggcca gcttcctcct 360
gagcaaggag aaccagcctg aaaacagcca gacgcccacc aagaaggaac atcagaaaagc 420
ctgggctttg aacctgaacg gttttgatgt agaggaagcc aagaaccttc ggctcagtgg 480
aaaaccacaa aatgcgccag agggttayca gaacagactg aaagtactct acagccaaaa 540
ggccactcct ggctccagcc ggaagacctg ccgttacatt ccttcctgc cagaccgtat 600
cctggatgcg cctgaaatcc gaaatgacta ttacctgaac cttgtggatt ggagttctgg 660
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caaagagggc aactacttgg ctgtgggcac cagcagtgct gaggtgcagc tatgggatgt 840
gcagcagcag aaacggcttc gaaatatgac cagtcactct gcccgagtgg gctccctaag 900
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gggcaccagt gatcgacaca ttcgcatctg gaatgtgtgc tctggggcct gtctgagtgc 1260
cgtggatgcc cattcccagg tgtgtccat cctctggctt cccattaca aggagctcat 1320
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ggacctgcg cggcggcggg agcgggagaa ggccagtgc gccaaaagca gcctcatcca 1560
ccaaggcatc cgctgaagac caaccatca cctcagttgt tttttatttt tctaataaag 1620
tcatgtctcc cttcatgttt tttttttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaa -1688

<210> 196

<211> 756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (756)

<223> n equals a,t,g, or c

<400> 196

ggcacgagcc gccctcggcg tcctctgtag cgggcgacct aggcgcggg acccgacgg 60
aggtagaggc cagggcagcg cgtccgggag cggagtccgc gcccgcggc gccatgccg 120

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acagctggga caaggatgtg taccctgagc cccgcgcgcg cacgccggtg cagcccaatc 180
ccatcgtcta catgatgaaa gcgttcgacc tcatcgtgga ccgaccctgt accctcgtga 240
gagaatttat agagcggcag cacgcaaaga acaggtatta ctactaccac cggcagtacc 300
gccgcgtgcc agacatcact gagtgcagg aggaggacat catgtgcatg tatgaagccg 360
aaatgcagtg gaagagggac tacaaagtcg accaagaaat tatcaacatt atgcaggatc 420
ggctcaaagc ctgtcagcag aggggaaggac agaactacca gcagaactgt atcaagggaag 480
tggagcagtt caccaggtg gccaaaggcct accaggaccg ctatcaggac ctgggggcct 540
acagttctgc caggaagtgc ctggccaaac agaggcagag gatgctgcaa gagagaaaag 600
ctgcaaaaga gccgcgcgcg gccacctcct gaggcagctg tgggtgcccc tgctgtgtgg 660
ctctgtatga ctgttgtga aatataaagc cctgcaacct gaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattn 756
```

<210> 197

<211> 1471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 197

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ttggctgctc ctgacctcag caaaccaaga gggatcact gggatacatc agattggatg 60
ccaagcgttc ctctgccgga catacaagag ttccccaact atgaggtgat tgatgagcag 120
acaccctgt actcagcaga tccaaacgcc atcgatacgg actattaccc tggaggctac 180
gacatcgaag gtgattttcc tccaccccca gaagacttcc ccgcagctga tgagctacca 240
ccgttaccgc ccgaattcag caatcagttt gaatccatcc accctcctag agacatgcct 300
gccgcgggta gcttgggttc ttcatcaaga aaccggcaga ggttcaactt gaatcagtat 360
ttgcccatt tttatcccct cgatatgtct gaacctcaaa caaaaggcac tggtgagaat 420
agtacttgta gagaacccca tgccccttac ccgccagngt atcaaagaca ctctgaggcg 480
cccgtgtctg agagcatgcc catgtctgtg tacgcctcca ccgcctcctg ctctgacgtg 540
tcagcctgct gcgaagtggg gtccgaggtc atgatgagt actatgagag cggggacgac 600
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ctctcaactc ccccaaaagt gcctgacttt agtgaaccta gaggtgatgt gagtaatccg 720
cgctgttctt tgcagcagtg cttccaagct ttttttggtg agccgaatgg gcatggctgc 780
gctggatcct gcgcctctgg acgtgctagc catttccagt gtcccaacta ctgtcatcgt 840
gaggttttca tcggctgtgc catttcccaa cgtcttttgg gatttacatc tgtctgtgtt 900
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ggtggtagtg ccattatcta gcaccctgat tttttttttt tactataacc agggtttcat 1140
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tctagctgta cataggatga aggagagatc agatacatga acatgtctta catgggttgc 1260
tgtattttaga attataaaca tttttcatta ttggaaagtg taacggggac cttctgcata 1320
cctgttttaga accaaaacca ccatgacaca gtttttatag tgtctgtata tttgtgatgc 1380
aatggctctg taaaggtttt taatgaaaac taccattagc cagtctttct tactgacaat 1440
aaattattaa taaaataaaa aaaaaaaaaa a 1471
```

<210> 198

<211> 692

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<400> 198

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agtgcggctt gctcttgga gttcaggctc ggttgctctt tgggagccat ggagagtgc 120
ttttatctgc gttactacgt ggggcacaag ggcaagtctg gccacgagtt cctggagttt 180
gagtttcgac cggacgggaa gtttaagatat gccacaaca gcaattacaa gaatgatgtc 240
atgatcagaa aagaggctta tgtacataaa agcgtgatgg aggaactgaa gagaataatt 300
gacgacagtg aaattaccaa agaggatgat gcattgtggc ctccctcctga ccgagtgggc 360
cggcaggagc ttgaaatcgt cattggagat gaacacattt cttttacaac atcaaaaatt 420
ggttccctta ttgatgtcaa tcaatccaag gatccagaag gcttacgagt attttattat 480
cttgtccagg acctgaagtg tttggtcttc agtcttattg gattacactt caagattaaa 540
ccaatctaga ctgaatattg gtgtggacat ggggggtggg tgggagtaga aaattttgtg 600
tatatcaggg cagtattttt ttatgaacta taaatgattg tctttaataa atatgtgata 660
aatccaatt tttattttt tataaagacc tg 692
```

<210> 199

<211> 1573

<212> DNA

<213> Homo sapiens

<400> 199:

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ctcgtgccga attcggcacg agccggcgcc agctacgccg ctgccgctgt cactatggcc 60
cattacaag cgcgcgactc gaagcgtgag cagttccgga ggtacttgga gaagtcggg 120
gtgctggaca cgctgaccaa ggtgttgga gccttatatg aagaaccaga gaaacctaac 180
agtgttttgg atttttttaa gcatcactta ggagctgcta ctccagaaaa tccagaaata 240
gagctgcttc gcctagaact ggccgaaatg aaagagaagt atgaagctat tgtagaagaa 300
aataaaaaac tgaaagcaaa gcttgctcag tatgaaccac ctccaggagga gaagcgtgct 360
gaataggatt cttctcagtt tgaaagacaa tgaaaaatgg ttttgtatga cttgaatagt 420
ttgtatagta tataatcttt tctgaacaga tgctatagaa ctcttttaat atgtttaatt 480
cacctatcac actctgttaa aaacacatag aatcatcaat aaaaactcaa tataactttc 540
tttgggtctt aaagcaggag aatccaaagt aaatcctgaa caaaacctaa acacagccat 600
ctaactcatt accttaaaa acattctgkt tattagtctg attaggaatg atggcactgg 660
ttgtatttta gccaaagacag ttttagcatgg agctattcct tgggtgcagt caggatatga 720
acacaggtag agtcattctt tgaaggtag actgttctgt atattcccta taggcagctg 780
gagagatctg tgtgacacaa gatgcttttg tacgggttcc catgaatctt ctgctcttgt 840
ttgtgtgaca tggaacaaat aacttctttg ccaccacttt gccttagata actgtgtgtg 900
tgtgtgccag tttgaactct gacaccacat tttccttcta tgcaatcatg cctgtctgat 960
aatcttgcatt tgctttcctc tgagcttttag tgggtcctag ttgcacactg gcctttctgt 1020
gctgtttttc aatttgccca ataatagcag ttaccctgat tgtaatttat gtaactttta 1080
acaggatcac actgtacccc ctgcctgcct tatttgctta ctgagcacag gacagaggca 1140
atatacaact ctgggttcac acacaagctg agatgagaag aggaatgagc catatatttg 1200
ggaaaatcat agttttagg tataattata tagtgctttt ctccctcaaa gtatttttct 1260
agccttgaat tcattttatc ttcattatcc ctgtgaagta ggtgggacaa gtataagggg 1320
aagaggggtg ctgaattttt aggccaaaga ctgatattaa tacaaatcac tcactaactg 1380
```

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tagagccttg ggcattatca gtgaactact ctgagattta ctgtcttcat ctgtttaatg 1440
agtagaatgt ccgtgatgcc tacctcacag gggtgtgtg agggcctcaat gagaatgtat 1500
gtgaaagatt tgtaaatggt aaagcactat attcttgta aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaa                                     1573

```

<210> 200

<211> 2742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<400> 200

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tattcacaga tgccatcaag ctgaatcctc gcttggccat tttgtatgcc aagagggcca 120
gtgtcttcgt caaattacag aagccaaatg ctgccatccg agactgtgac agagccattg 180
aaataaatcc tgattcagct cagcettaca agtggcgggg gaaagcacac agacttctag 240
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<211> 1417

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<213> Homo sapiens

<400> 201

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<210> 202

<211> 1512

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (855)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1512)

<223> n equals a,t,g, or c

<400> 202

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1512

<210> 203

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<400> 203

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<210> 204

<211> 2833

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2831)

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<220>

<221> misc feature

<222> (2832)

<223> n equals a,t,g, or c

<400> 204

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<210> 205

<211> 5830

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5821)

<223> n equals a,t,g, or c

<400> 205

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tgtaagttgt atattactgt ttcttatgta caaggaacaa caataaatca tatggaaatt 5760
tatattttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaasgg ggggcccccc 5820
nagggggccc 5830

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<210> 206

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<400> 206

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ttgtcaccgc cagccggggc gagggcgagt cctggtaccg cagcaagtgt gaggagatga 180
aggccacggt gatcaggcac ggggagaccc tgcgctgcac caggaggag atcaacgagc 240
tgaaccgcat gatccagagg ctgacggccg aggtggagaa tgcgaagtgc cagaactcca 300
agctggaggc cgcggtggcc cagtctgagc agcagggtga ggcggccctc agtgcagccc 360
gctgcaacct ggccgagctg gagggcgccc tgcagaaggc caagcaggac atggcctgcc 420
tgatcaggga gtaccaggag gtgatgaact ccaagctggg cctggacatc gagatcgcca 480
cctacaggcg cctgctggag ggcgaggagc agaggctatg tgaaggcatt ggggctgtga 540
atgtctgtgt cagcagctyc cggggcgggg tctgtgtcgg ggacctctgc gtgtcaggt 600
yccggccagt gactgcagtg tctgcagcgc tycgtgcaac ggcgaactgg cgggtgagcac 660
cggcctgtgt gcgccctgcg gcaattgaca ccamctgcgg aggggggtct gcggcgtggg 720
ctyctgtggt atcaagyttc cccccctttt gggggg                                     755
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<210> 207

<211> 1996

<212> DNA

<213> Homo sapiens

<400> 207

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tccgccactc cggtagcctc atggctgcaa cctgtgagat tagcaacatt ttagcaact 180
acttcagtgc gatgtacagc tcggaggact ccaccctggc ctctgttccc cctgctgcca 240
cctttggggc cgatgacttg gtactgacct tgagcaaccc ccagatgtca ttggagggtg 300
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ccccaccctc ctcttggaat tacaagccct ggggtttgaa gctgacttta tagctgcaag 1500
tgtatctcct tttatctggt gcctcctcaa acccagctctc agacactaaa tgcagacaac 1560
```

```

accttctctcc tgcagacacc tggactgagc caaggaggcc tggggaggcc ctaggggagc 1620
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tccctgctca gtgcttgggc tccacgggca ggggtcagag cactccctaa tttatgtgct 1740
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cctctccac agagtgctgg actgttccag gccctccagt gggctgatgc tgggaccctt 1860
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```

1996

<210> 208

<211> 1668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1505)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1620)

<223> n equals a,t,g, or c

<400> 208

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gccagccttg gacacttgct gcccctttcc agcccggatt ctgggatcct tccctctgag 120
ccaacatctg ggtcctgcct tcgacaccac cccaaggctt cctacctgc gtgcctggag 180
tctgccccag gggcccttgt cctgggccat ggccmagaag ggggtcctgg ggcctgggca 240
gctgggggct gtggccatc tgccttatct tggattactc cggtcgggga caggagcgga 300
aggggcagaa gctycctgcg gtgtggcccc ccaagcacgc atcacaggc gcagcagtgc 360
agtcgccggt cagtggccct ggcaggtcag catcacctat gaaggcgtcc atgtgtgtgg 420
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ccacaaggaa gcctatgagg tcaagctggg ggcccaccag ctgactcct actccgagga 540
cgccaaggtc agcaccctga aggacatcat cccccacccc agctacctcc aggagggtc 600
ccaggggcagc attgcactcc tccaactcag cagacccatc accttctccc gctacatccg 660
gcccatctgc ctccctgcag ccaacgcctc ctcccccaac ggcctccact gcactgtcac 720
tggctggggg catgtggccc cctcagttag cctcctgacg cccaagccac tgcagcaact 780
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aggacgcctg ccagggtgac tctggggggc cactctcctg ccctgtggag ggtctctggt 960

```

```
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gtgtggtgccc ccaaaccagc gagtcccagc ccgacagcaa cctctgtggc agccacctgg 1140
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ttctngaaga ctgcttcccg gcccgccctc ccagactnga tgagcacatt ttttttgcen 1620
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```

<210> 209

<211> 2250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 209

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ggaattcgcg gccgcgtcga cattcgccgc cgcagcagcc gccgcccccg ggagccgccc 120
ggacctcgc gtcgtcgccg ccgcccgcgc ccagatcccc gcacctatgcc gtcggagaag 180
acctcaagc agcgcgcgac cttcgaacaa agagtagaag atgtccgact tattcgagag 240
cagcatccaa ccaaaatccc ggtgataata gaacgataca agggtgagaa gcagcttcc 300
gttctggata aaacaaagtt ccttgtacct gacctgtca acatgagtga gctcatcaag 360
ataattagaa ggcgcttaca gctcaatgct aatcaggcct tcttctgtt ggtgaacgga 420
cacagcatgg tcagcgtctc cacaccaatc tcagagggtg atgagagtga gaaagatgaa 480
gatggattcc tgtacatggc ctatgcctcc caggagacgt tcgggatgaa attgtcagt 540
taaaaccaga aaaaatgcat ctcttctaga attgtttaaa cccttaccaa ggaaaaaaa 600
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ttaaaagttt aaaaataaaa tactttgcat tctaagttgc caataaata gaccttcaag 840
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gccatcagaa ttctcccaca ccaagtgcac gtcagttgtg gagaaaacat agcaaaaaga 1620
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gocgtacgct ctttacagat actaatgtca agagttaaac ctccctcaggt tcaacctgtg 1680
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taacggggaa aaccagattc tttgcatctg ggccctctac tgattgttaa aggagttcct 1920
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tgacattatt gtaactaccg tgtgatcagt aagattcctg taagaaatac tgctttttta 2100
gaaaaaaaaa aacatgctga ggggtgacct atatcccatg tgagtggta ctttatttat 2160
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

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<210> 210

<211> 838

<212> DNA

<213> Homo sapiens

<400> 210

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ctgggcgccc ctctccgccc ctgcgctgtg gccgcaacca cccgggcga cctcagaggc 180
ctcctgcact ccgcccggac ccccgccccc gccgtggcta tccagtcagt tcgctgctat 240
tcccatgggt cacaggagac agatgaggag tttgatgctc gctgggtaac atacttcaac 300
aagccagata tagatgcctg ggaattgcgt aaagggataa acacacttgt tacctatgat 360
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tttgctagta cagttcgtat cctagagggt gttaaggaca aagcaggacc tcataaggaa 480
atctaccctt atgtcatcca ggaacttaga ccaactttaa atgaactggg aatctccact 540
ccggaggaa tgggccttga caaagtgtaa accgcatgga tgggcttccc caaggattta 600
ttgacattgc tacttgagtg tgaacagtta cctggaaata ctgatgata catattacct 660
tatttgaaca agttttcctt tattgagtac caagccatgt aatggtaact tggactttaa 720
taaaagggaa atgagtttga actgaaaaaa aaaaaaaaaa aaactcatac agactgaagc 780
gcggtgatta aataatgaaa gagttcgacg cggccgggaa tttaggaggt aaatatcc 838

```

<210> 211

<211> 1213

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1206)

<223> n equals a,t,g, or c

<400> 211

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gcccacgcgt ccggcaggaa ccgcggctgc tggacaagag ggggtcgggtg gatactgacc 60
tttgctccgg cctcgtcgtg aagacacagc gcatctcccc gctgtaggct tccctccaca 120
gaacccggtt cgggcctcag agcgtctggt gagatgctgt tgccgctgct gctgctgcta 180
cccattgtgt gggccgtgga ggtcaagagg ccccggggcg tctccctcac caatcatcac 240
ttctacgatg agtccaagcc ttacacctgc ctggacgggt cggccaccat cccatttgat 300
caggtaacg atgactattg cgaactgaaa gatggctctg acgagccagg cagcgctgcc 360
tgtcctaatt gcagcttcca ctgcaccaac actggctata agccctgta tatccctcc 420

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<213> Homo sapiens.

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

<223> n equals a,t,g, or c

BNSDOCID: <WO 0055350A1 | >

aaaaaaaaa aaaaaaaaaa anaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaancncg 960
 gggggggggg 969

<210> 213

<211> 1694

<212> DNA

<213> Homo sapiens

<400> 213

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 ctctgtgccc tgggtcccct gctgccatgt ggatgctgt gtgattgctg tttgtatatt 1620
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 aaaaaaaaaa aaaa 1694

<210> 214

<211> 1210

<212> DNA

<213> Homo sapiens

<400> 214

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 tggttaccat tatccccaac ttcagctctg acaagatcta cctcatcggg ggggacctgg 180
 ggccctttta ccctggttta ccctggaag tgcctctgtg gctggcgatt aacctgaaac 240
 aaagacagaa atgtgcctg ctccctccag agtggaatga ttagaaaaag ttggagaaga 300
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aacttacgaa gctcctgtta aatcatgctt cagacaacat cccgaaggca gacgaaatcc 420
ggaccctggt caaggatatg tgggacactc gtatagccaa actccgagtg tctgctgaca 480
gctttgtgag acagcaggag gcacatgcca agctggataa cttgaccttg atggagatca 540
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ttgggaggtt: gttcagtga: tggtaggtgt: agatacagca: ggagtggcca: tgtggtccac 1020
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tggtcacag agaaggatgg: cagatggtgc agccaacaat: gctgaccggg: gcttatcctc 1140
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agagagagac: 1210

<210> 215

<211> 1776

<212> DNA

<213> Homo sapiens:

<400> 215

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tagctgcact aggtgattct: tggagcgggc: ctgagagaca: aggacatgtg: gatcccagtg 120
gtcgggcttc: ctggcggtct: gaggtctctc: gccttggcgg: gcgctggtcg: cttttgcatt 180
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1776

<210> 216

<211> 1418

<212> DNA

<213> Homo sapiens

<400> 216

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<210> 217

<211> 2200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2188)

<223> n equals a,t,g, or c

<400> 217

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<210> 218

<211> 1853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1794)

<223> n equals a,t,g, or c

<400> 218

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tggtgggcgc cgtgaagagc cttcaggcgc tgggcgaggt catcgaggct gaacttcggt 180
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gcccccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1853

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<210> 219

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1091)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1092)

<223> n equals a,t,g, or c

<400> 219

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cgagtatggc gccagcccg agcaggttgc agacaatggc gatgaccact cagaaggagg 180
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaa nna 1093

<210> 220

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 220

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<210> 221

<211> 1264

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (22)

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<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

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<210> 222

<211> 2085

<212> DNA

<213> Homo sapiens

<400> 222

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<222> (2921)

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<400> 223

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<211> 4395

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<213> Homo sapiens

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<220>

<221> misc feature

<222> (4382)

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<222> (4391)

<223> n equals a,t,g, or c

<400> 224

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<212> DNA

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<222> (2959)

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<211> 1511

<212> DNA

<213> Homo sapiens

<400> 226

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<210> 227

<211> 2239

<212> DNA

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<221> misc feature

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<223> n equals a,t,g, or c

<400> 227

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2239

<210> 228

<211> 2346

<212> DNA

<213> Homo sapiens

<400> 228

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2346

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<210> 229

<211> 2246

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2235)

<223> n equals a,t,g, or c

<400> 229.

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```

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```

2246

<210> 230

<211> 2002

<212> DNA

<213> Homo sapiens

<400> 230

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aaaaaaaaaa aaaaaaaaaa aa                                     2002
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<210> 231

<211> 994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (853)

<223> n equals a,t,g, or c

<400> 231

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ccaataccat tgactataaa agctattttt gaaagattca agaacaggaa aaagagatat 480
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aattgcttca tattttgcct ttaatatagt tatacttaaa taatgaacaa agatacagag 960
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<210> 232

<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (440)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (485)
 <223> n equals a,t,g, or c

<400> 232
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 ctgccaaagt gtccctgccag cagaaccagc agcagtgcca acccccaccc aagtgtccct 180
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 gaagnc 486

<210> 233
 <211> 2081
 <212> DNA
 <213> Homo sapiens

<400> 233
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```

<210> 234

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<400> 234

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ctccaacccg gggcgctct gctgtggtcc ttcgggtgta aggcgagtsc tggtctttg 180
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tccattatgt ggttcatgaa ctgggttccta cagcagatca atgtcctgca gaaggaaacta 480
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<210> 235

<211> 1129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (807)

<223> n equals a,t,g, or c

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<400> 235
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cgtggtgcag tggggggcct cctgggtgtt gacctaacca agcaccagac ctatgctgtg 540
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<210> 236

<211> 1045

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (973)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1001)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<400> 236

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atcctcaaag gcagctcagg ctccgtgtgg ctgcgcaacc tgcaactggg cctcttcggc 60
acagcactgg gcctgggtgg gctctgggtg gctgagggta ccgccgtggc caccgtggg 120
ttcttttttg ggtacacacc tgctgtctgg ggcgtgggtg tcaaccaggc cttcggcggg 180
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ttatttgccc ttggcgctgg actcgtcatt ggtgctgtct acctctacag ccttccccga 360
ggtgcagyca aagccatagc ctctgcctct gcctccgct cggggccctg cgttcaccag 420
cagcctcccg ggcagccacc accaccgcag ctgtcttccc accgtggaga cctcatcacg 480

```

```

gagccctttc tgccaaagtc agtgctggtg aagtragggc tggcagcaat ggggggacac 540
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tggaacaaac tccgagtctt aggaatgacg atgcctactg tggggtagtg ccatagttgg 960
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aatgcttctg gagccaggaa aggca 1045

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<210> 237

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (666)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<400> 237

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ggaggagggt ctgccacagc tctccgcacc tctcctctcc cagggcagcc tgtgagcagc 60
aagctgtggc tctgactctg caggaggaca gagcatccct gacgctttca ggggggccct 120
cggcactggc ctttgacctc tccaaggtag caggcccaga ggcagcccc aggtgyggg 180
cgctgacact gggcctggca aaacgcgtgt ggagcctgga gcggcgactg gcagctgcag 240
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cagaccaga tccccagaga ggtggccctg gacctggagt caggaggcgg tgtccaggag 360
agtcgctcat caaccccggt ttcaagagta agaaaccagc tggtygcgtg gacttcgatg 420
agacctgaag gtgcagcaca agcgtggccc cgcggggagt ccgcctatga ggggagaggc 480
agtctttgag gccccatca gagaccccc gccaccacct ccacctgcct gtccctgggcc 540
aggactaaca cggctcctca aattccttcc ctgtcaaata aacagctccc ttggttgga 600
aaaaaaaaa aaaaaaaaaa agttttttt aattttaagg cgggccaaag ttttttttcc 660
tttttngttg aagggttnat ttttttagttt 690

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<210> 238

<211> 1873

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<400> 238


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cccgggctca gtatgtggcg ccttcctcgc gcgctgtgtg tgcacgctgc aaagaccagc 60
aagctctctg gaccttgag caggcctgcc gccttcctgt ccactctcct catcaatcag 120
ccccagtatg cgtggctgaa agagctgggg ctccgcgagg aaaacgaggg cgtgtataat 180
ggaagctggg gaggcgggg agaggttatt acgacctatt gccctgctaa caacgagcca 240
atagcaagag tccgacaggc cagtgtggca gactatgaag aaactgtaaa gaaagcaaga 300
gaagcatgga aaatctgggc agatattcct gctccaaaac gaggagaaat agtaagacag 360
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gggaaaatct tagtggaagg tgtgggtgaa gtccargagt atgtggatat ctgtgactat 480
gctgktgggt tatcaaggat gattggagga cctatcttgc cttctgaaa atctggccat 540
gcactgattg agcagtggaa tcccgatgac ctggttgga tcatcacggc attcaatttc 600
cctgtggcag tgtatgggtg gaacacgcca tcgccatgat ctgtggaaat gtctgcctct 660
ggaaaggagc tccaaccact tccctcatta gtgtggctgt cacaaagata atagccaagg 720
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cagtactata tccccctatg accccaaagc cctgattaaa tcaagagatt ccttttttaa 1800
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tttattatgg tca

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1873

<210> 239

<211> 905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (873)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (897)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<400> 239

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gacccagcag ggcgcggcgc tgcagaacta caacaacgag ctggtcaagt gcatagagga 120
gctgtgcccag aagcgggagg agctgtgccg gcagatccag gaggaggagg acgagaagca 180
gcggctgcag aatgaggtga ggcagctgac agagaagctg gcccgcgtca acgagaacct 240
ggcacgcaag attgcctctc gcaacgagtt cgaccggacc atcgcggaga cggaggccgc 300
ctacctcaag atcctggaga gctcccagac tttgctcagc gttctcaaga gggagctgg 360
gaacctgacc aaggctacag ccccagacca gaaaagtagc ggcggcaggg acagctgacc 420
agaccacggg cagggcctgc ctccgtgtgc ccctcagctc agccccagca agtggtgtgt 480
cagagcatct ttgtttcttca cggcagcagc taccttccct cactgtctca ggtgccgaga 540
ggggcaggtg ccagcctcca ctggcatcag tgacaagccc agggcacagc ccaccgggg 600
gtcctcgctt catgctcaca caggctatgg ggatgggtgg ctccaggtea gctctgcaag 660
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ggaggacagg ggttctcctt caccacagaa cccaaacctc aggtctcacc cctgtggcct 840
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99999 905
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<210> 240

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1480)

<223> n equals a,t,g, or c

<400> 240

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agatatacaa atatacagat atacaaataa ggggtgaagat ggagggaatc tgataaagac 180
atcttataaa ttcaacagac acaaaagaat ttgatctccc ataagcaact gtgaaattac 240
aataacagat cctgggaagt tctacaattc taattcagtt ttttcaaggg ggaacatggc 300
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aaagggtgttc agtttcatcc ttgttaccac cgctctgaya atggggcaggg aaatttcggc 360
gctcgaggac tgtgcccagg agcagatgcg gctcagagcc cagggtgcgc tgccttgagac 420
ccgggtcaaaa cagcaacagg tcaagatcaa gcagcttttg caggagaatg aagtccagtt 480
ccttgataaa ggagatgaga atactgtcgt tgatcttgga agcaagaggc agtatgcaga 540
ttgttcagag attttcaatg atgggtataa gctcagtggg ttttcaaaa tcaaacctct 600
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aattcagaga cgatctgatg gcagtgtaaa ctttaacaga ggatggaaa actatgaaaa 720
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cttcttgacc actcaagaag actacacttt aaaaatcgac cttgcagatt ttgaaaaaaa 840
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tcatgataac tgtgtgagt agtgcctttt attcttctca cttgcctttg ttacttaatg 1380
tgctttcagt acagcagata tgcaatatcc accaaataaa tgtagactgt gtttaawaaa 1440
aaacaacaaa tatgaanaaa aaaaaaaaaa nggggggctn tttt 1484

<210> 241

<211> 1521

<212> DNA

<213> Homo sapiens

<400> 241

caaaagcctt aatgggcctg cagactttga aaagcgagtg gagggcggtg ggcggccgag 60
tgcgcccctg gtcaatgccc tcctgacagc acccgagttc cttatttaca ctggetgcat 120
ggtttgtgtg tttctgtttt gtttctctcc ccttcgaggg ctgtttkcgg ggtgggggtg 180
gggggttcgct atgtcgagtg acgattcgag ggccagcacc agctcctcct catctctgct 240
ttccaaccag caaaccgaga aagaacaaaa ccccccaag aagaaggaga gtaaagtcag 300
catgagcaaa aactccaaac tcctctccac cagcgccaag agaattcaga aggagctggc 360
ggacatcact ttagaccctc cacctaattg cagtgtggtg cccaaaggcg ataactcta 420
tgaatggaga tcaaccattc tagggcctcc aggatccgtg tatgagggtg gtgtattctt 480
tctcgatata acttttacac cagaatatcc cttcaagcct ccaaagggtt catttcggac 540
aagaatctat cattgtaata ttaacagtca aggtgttatt tgccttgaca tattgaaaga 600
taattggagt ccagcactaa ccatttctaa agtcctcctt tctatctgct cacttcttac 660
agactgtaat cctgccgacc ccttggtggg aagtattgcc actcagtata tgaccaacag 720
agcagaacat gacagaatgg ccagacagtg gaccaagaga tacgctacat aaattggggg 780
ttcacaattc ttacattatt tgtctgtcac agaagagagc tgcttatgat ttggaagggt 840
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tatttcctaa gattttgttg taacttaagg tatcttgcta cagttagacag aattggtaat 960
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gtttaaaaca aaattggaat ttgttttccc ttcttggaag ggaacattga tatttaacag 1200
agttttttaga gattgtcatt tcatatatat aaaatggaca cgtggctata aaacaccata 1260
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 tttcttttgc cttttggttg c 1521

<210> 242

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1093)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1139)

<223> n equals a,t,g, or c

<400> 242

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 tcccagagga gcaggaatta gaagcttatg tagatgatat agatattgat agtgatttca 180
 gaaaggatga tttttattac ttgtctcaag aagacaaaaga gagacagaag cgtgagcatg 240
 aagaatccaa gaggtgctc caagaattaa aatctgtgct gggattttaa gcttcagagg 300
 cagaaaggca gaagtggaag caacttctat ttagtgatca tgtgtttctt catatagctt 360
 taaaattatg ctattgacat tatgggaaag atttatcaat gagagaaatg tgtctctttt 420
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 gaaggtaaaa ataaagataa ttcttcaaat gaagtcttcc cccaaggagc agaagaaaga 660
 atgtgttacc aatgtgagag tgaagatgaa ccacaagcag atggaagtgg tctgaccact 720
 gccctccaa ctcccaggga ctcattacag ccctccatta agcagaggct ggcacggcta 780
 cagctgtcac cagattttac cttcactgct ggccttgctg cagaagtggc tgctagatct 840
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 gaagaaaata aaaatgagat agaagaaaag taagaaccaa gattcatatg aagtgatatt 960
 agattgttcc ttttacaaaa gtgttttagct tcaagactgg aaagggaata tgagtgttaag 1020
 tttactatat ataaagctaa gatgtggatt tacaggaaga accctgggtt gaataactga 1080
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 cccg 1144

<210> 243

<211> 934
 <212> DNA
 <213> Homo sapiens

<400> 243
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 cccgaacacc atcatgtgga gacatttgca attttcctcc taaaattgcc catgggcatt 180
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 cccctcaatg taaagctctg tgtcggaaac cagaattagt gaatggaagg ttgtctgtgg 360
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 tataattttt ctcaaaagaa ggaggaaaag gtgtcttgtc ggcttgcctc ttgcaattca 720
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 aatgtatgta taaaaaaaaa aaaaaaaaaa tcga 934

<210> 244
 <211> 915
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (210)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (243)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (244)
 <223> n equals a,t,g, or c

<400> 244
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 gaccaccacc agctgcgctc actgactggc ctcatccgaa acctgtctcg gaacgctagg 180
 aacaaggacg agatgtccac gaagggtggt gagccacctg atcgagaagc tgccrggcas 240
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 catccagcct cctggccaac ctgtggcagt acaacaagct ccaccgtgac ttcggggcga 480

aggctatcgg aaggaggact tcctgggccc ataggtgaag ccttctggag gagaagggtga 540
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ccatgaacag tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaac 915

<210> 245

<211> 1276

<212> DNA

<213> Homo sapiens

<400> 245

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acaagatgaa gcaagatgcc tcaagaaatg ctgcctacac tgtggattgt gaagattatg 180
tgcattgtgt agaatttaat ccctttgaga atggggattc aggaaccta attgcatatg 240
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aaggcattca gtataaaaca cttcgaacat ttcacatgg agtcagggtt gatggcatag 360
cttggagccc agagactaga cttgattcat tgcctccagt aatcaaat tgtacttcag 420
ctgctgatat gaaaattaga ttattttactt cagatcttca ggataaaaaat gaataaagg 480
tttttagagg ccataccgat ttcattaatg gtttgggtgt tgatcccaa gaaggccaag 540
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<212> DNA

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3366

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<211> 2148
<212> DNA
<213> Homo sapiens

<220>
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<222> (1259)
<223> n equals a,t,g, or c

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<210> 248
<211> 2225
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 248

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<211> 1204

<212> DNA

<213> Homo sapiens

<220>
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<222> (1197)
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<211> 1314
<212> DNA
<213> Homo sapiens

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<210> 251

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1132)

<223> n equals a,t,g, or c

<400> 251

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<211> 2488

<212> DNA

<213> Homo sapiens

<220>

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<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (2334)

<223> n equals a,t,g, or c

<400> 252

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2488

<210> 253
 <211> 1554
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (81)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1496)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1523)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1535)
 <223> n equals a,t,g, or c

<400> 253
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 cttcgcggct gctcaagatg aaccgactct tcgggaaagc gaaacccaag gctccgccgc 180
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 tttctcgatt ggatgctgag ctagtgaagt ataaggatca gatcaagaag atgagagagg 300
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<210> 254

<211> 1506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1506)

<223> n equals a,t,g, or c

<400> 254

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ctttgtagct gagaacggct tgtttattgc tacaaagact ctattgacat tggtagcttc 180
agcggcagca gcttcttacg gtataaagct gttgcttcct gaagaggcta caagcatcct 240
tccctaggac tgctgtaagc tttgagcctc tagcaggaga catgcctcgg ggacgaaaga 300
gtcggcgccg ccgtaatgcg agagccgcag aagagaaccg caacaatcgc aaaatccagg 360
cctcagaggc ctccgagacc cctatggccg cctctgtggt agcgagcacc cccgaagacg 420
acctgagcgg ccccgaggaa gacccgagca ctccagagga ggcctctacc acccctgaag 480
aagcctcgag cactgcccga gcacaaaagc cttcagtgcc ccggagcaat tttcagggca 540
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tttataaacc ggtgccccgt agcagtcagg tggagtatga gttcttctgg gggccccgag 780
cacacgtgga atcgagcaaa ctgaaagtca tgcattttgt ggcaagggtt cgtaaccgat 840
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ctatcctcaa ttcaggtgct aggggttatt ccgccctta agtagatctg aggcagaccc 960
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ncccggn                                     1506

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<210> 255

<211> 654

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (632)

<223> n equals a,t,g, or c

<400> 255

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cgtctgccat cggcgccatc ctgcaatcta agccacaatg gtgcgcata atgtcctggc 180
agatgctctc aagagtatca acaatgccga aaagagaggc aaacgcccagg tgcttattag 240
gccgtgctcc aaagtcacgc tccggtttct cactgtgatg atgaagcatg gttacatttg 300
cgaatttgaa atcattgatg accacagagc tgggaaaatt gttgtgaacc tcacaggcag 360
gctaaacaag tgtgggggtga tcagccccag atttgacgtg caactcaaag acctggaaaa 420
atggcagaat aatctgcttc catcccccca gtttggttct attgtactga caacctcagc 480
tggcatcatg gaccatgaag aagcaagacg aaaacacaca ggaggggaaa tcctgggatt 540
ctttttctag ggatgtaata catatattta caaataaaat gcctcatgga caaaaaaaaa 600
aaaaaaaaaa aaaaaagggs gsggtctag anggtccaag cttacgtacg cgtg      654

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<210> 256

<211> 1992

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<400> 256

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gtacaactgg cagtatgtgc actgcctctt cctgtggtgc cgggtcctga gcaactgcgg 120

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ccccagcgaa scctccagcc cttggtctac ccccttgccc aagtcacatc tggctgtatc 180
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ctgctctcgg ggagctcggg ggccttcac cgggtgctgc ctttcatcct ggagatgttc 300
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ccccttgga ataaagctct tcagactttt cccttccgag cggaggggagc ggcccgcgag 1980
ccccaagcgc tg 1992

```

<210> 257

<211> 2273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2273)

<223> n equals a,t,g, or c

<400> 257

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cgcggcgctcc cccaccctaa gtcccacctc cggccgggca tgggtaccgc ggcgggcctg 120

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gctcggcctg ggcccactca ctggtccaga agcagctgta ggtgcccacc aagcccatga 180
cgacgctgct ggccagggtc cagccctatt caggcaggag ctgctcttct ggggtatcgc 240
gatccactta aggatgaggg agacttggtg acaagctggg ctgagcagcg cttccagagc 300
cagaactgag ccagtgaga gcgcaccctg gggcagcctg gattcctggg gtgtcccccg 360
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gcccaggcct ttcgcatctg cgccttcaat gccagcggc tgacactggc caaggtggcc 480
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attaaaaacc taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattttgcn ncn 2273

<210> 258

<211> 1504

<212> DNA

<213> Homo sapiens

<400> 258

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tattcaggga tttttttaa aagtcaatca gaaaagggt actggagctt cttcatgtat 180
gtaacagcat attaaactgg agacagtgat gaatcagcta caaaggtaat attgtattaa 240
aatcatgttt aagatagctg cttttatgtg tttttatat tgcagcttt tgtaaaaaa 300
tgctgggtga tgaaagatta gttttagaga gaaaatgttc atctgtgcag aggatgcatt 360
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ctattaatag aaccttttga gatgaattaa tgtaagaata ttttttaaatt aggttactg 480

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tcaaattgca actttttttt tagatacaga gtggaaaaca gtgctaagtc atttggcacc 540
tccttacaaa tatttttcat gggtcacattt attaaatgtt actacatttc tgaatttttg 600
aaaaatgtat tttatcatta aatggcatta ttttaaaggg tgaaaaactg acacagtcaa 660
ttcagaaaat ggactgaagt ctgaataagg tcattgcatt taaaaagcat ataactgtac 720
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aaaa                                              1504

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<210> 259

<211> 1792

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1306)

<223> n equals a,t,g, or c

<400> 259

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cgggaaatccc aaagggcgtg gtgagcttca aaagtgggaa ctggggcttg gccacagccg 180
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cccagatcac caagacgtgt cacgagtcac acgcccgtc agacacccaaa cttggggcctg 720
aggcttcttg ttttaactccg gcagagagggc cgtggccacc cagctgagcg agagytacta 780
catcctccgg ccagaggttg tggagagcta catgtacctg tggcgacaga cccacaaccc 840
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<210> 260

<211> 2048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<400> 260

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acccttagag gagggcgtgc ggggtctgt tttgcatgcg agccacccct ctggtgctc 180
ctgcgggttc cctgtccagg aagaagcggg tggagttgga tgacaactta gataccgagc 240
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ccctgagcct gaggtgccc tgctcttccg ccagatggcc accgcccttg cgcactgtca 600
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```

<210> 261

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1244)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1265)

<223> n equals a,t,g, or c

<400> 261

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cctatagcaa tggaactcag cgatgcaa atctgcaaac taacagaata tttaaagaaa 180
acacttgatc ctgatcctgc catccgacgt ccagctgaga aatttcttga atctgttgaa 240
ggaaatcaga attatccact gttgcttttg acattactgg agaagtccca ggataatgtt 300
atcaaagtat gtgcttcagt aacattcaaa aactatatta aaaggaaactg gagaattgtt 360
gaagatgaac caaacaaaat ttgtgaagcc gatcgagtgg ccattaaagc caacatagtg 420
cacttgatgc ttagcagccc agagcaaatt cagaagcagt taagtgatgc aattagcatt 480
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tttcagagtg gagatttcca tggtattaat ggagtcctcc gtacagcaca ttcattattt 600
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gatgcctttg ctttgccctt gactaatctt tttaaggcca ctattgaact ctgcagtacc 720
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ngntnttgg actagacgca gg 1282

<210> 262

<211> 599

<212> DNA

<213> Homo sapiens

<400> 262

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ggggccggcc ctgggcctgc tgcaggcgcg gcgctgccgg accagagctt cctgtggaac 180
gttttccaga gggctgataa agacaggagt ggagtgatat cagacaccga gcttcagcaa 240
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gataagaacg agctgaagca ggccctctma gtttcggcta ccggctctct kaccagttcc 480
acgacatcct cattcgaaag kttgacaggc argggacggg gcaratcgsc ttcgacgast 540
taatccaagg ctggcatggc ctgcagaggt ttacggatat attcaaaagg ttcggcacg 599

<210> 263

<211> 1261

<212> DNA

<213> Homo sapiens

<400> 263

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cagccatagc tacgtgcgtt cgctacgagg attgagcgtc tccaccaggt aagtgggcaa 180
gaggcggcag gaagtgggta cgcaggggcg caaggcgcac agcctctaga cgactcgctt 240
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tcttctgtgc ttcaccatct acataatgaa tccagtatg aagcagaaac aagaagaat 360
caaagagaat ataaagaata gttctgtccc aagaagaact ctgaagatga ttcagccttc 420
tgcactctga tctctgttg gaagagaaaa tgagctgtcc gcaggcttgt ccaaaaggaa 480
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ccgcctgaaa aaggagaata aagaactggc agaagtagca gaacatgtac agtatatggc 780
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attaatatatt gactgttgag aattttactg ccgaagttaa cctccactag ttctttgtag 1020
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a                                                    1261

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<210> 264

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 264

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aaaacaaacc gttcaacagg ttcccccaac cgcccacgcc acataaagaa cagacatatc 960
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<210> 265

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 265

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caagggcacg agcatcgggc catgcctttc ttggacatcc agaaaagggt cggccttaac 120

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atagatcgat ggttgacaat ccagagtggg gaacagccct acaagatggc tggtcgatgc 180
catgcttttg aaaaagaatg gatagaatgt gcacatggaa tcggttatac tcgggcagag 240
aaagagtgc aatagaata tgatgatttc gtagagtgtt tgcttcggca gaaaacgatg 300
agacgtgcag gtaccatcag gaagcagcgg gataagctga taaaggagg aaagtacacc 360
cctccacctc accacattgg caagggggag cctcgccct gaacagagca gctgctgatg 420
tctggaggct gattttcctg ttctctgttc tccactggaa aggttggtta cgacaaacct 480
ccttgtaaaa gtgtgtaaaa ataaaggatt gctccatcct aaaaaaaaaa aaaaaaaaaa 540
aaaatttggg ggggggnccc cgtancccat t 571

<210> 266

<211> 1350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 266

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<210> 267

<211> 1319

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<400> 267
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nccgctctag aactagtggg tcccccgggc tgcaggaatt cggcacgaga gactccgcga 120
cctactgacc cggcgactga caggctccaa ctaccggga ctcagtatta gccttcgcct 180
cactggctcc tctgcacaag aggmggcttc cggagtagcc ctcggtgaag ccccagacca 240
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caacaagatt tcgagagacg ctgactgtcg ggcggtgggtg atctctgggtg caggaaaaat 420
gttcaactgca ggtattgacc tgatggacat ggcttcggac atcctgcagc ccaaaggaga 480
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<210> 268
<211> 3694
<212> DNA
<213> Homo sapiens

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<221> misc feature
<222> (746)
<223> n equals a,t,g, or c

<400> 268
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aatgactgct ccaggaatgt ctacattaag aagaatggct ttactttaca tcgaaacccc 240
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tggaagtgt ggtgggagg ccctctgggc actgtggcag tgattggaat tgccacaaaa 360
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cagtgcacaa acgcacacaaa atatcagata ggagaaagaa ttcgagtcac cttggacatg 540
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<210> 269

<211> 1242

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1233)

<223> n equals a,t,g, or c

<400> 269

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cgactgtgac gaatgatcgc tcggcaccca tcattcgatg agaggacagc caaggactct 600
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<210> 270

<211> 2057

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

<400> 270

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aaggaacatc ataatggaaa tttcacagac cctcttcag tgaatgaaaa gaagaggagg 180
gagcgggaag aaaggcagaa tattgtcctg tggagacagc cgctcattac cttgcagtat 240
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tataaggaaa atctggttgg tgtcttacia gtgagctgac accatttttt attctgtgta 1920
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aaaaaaaaaa aannaaa 2057

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<210> 271

<211> 960

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 271

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caaccaattc caggggaagt ggtatgtggt aggcctggca gggaatgcaa ttctcagaga 360
agacaaagac ccgcaaaaga tgtatgccac catctatgag ctgaaagaag acaagagcta 420
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<210> 272

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 272

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gtatcagagc catcagaacc gccaccatga cgggtgggcaa gagcagcaag atgctgcagc 180
atattgatta caggatgagg tgcacccctgc aggcaggccg gatcttcatt ggcacctca 240
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agccaaagaa ctccaaacaa gcagaaaggg aagagaagcg agtcctcggg ctggtgctgc 360
tgcgagggga gaatctggtc tcaatgacag tagagggacc tcctcccaa gatactggta 420
ttgctcgagt tccacttgct ggagctgccg gggggcccagg gatcggcagg gctgctggca 480
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1167

<210> 273

<211> 2771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
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<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2715)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2717)
<223> n equals a,t,g, or c

<400> 273
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<210> 274

<211> 1889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

<400> 274

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gttcggaaac ctatcgatta cacagtnctg gatgatgtgg gccatgggtg cangcatgga 120

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aatagaccag cctgcaggaa ctggcacact gtcgagaaca aatcctccta ctcagaaacc 180
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<210> 275

<211> 604

<212> DNA

<213> Homo sapiens

<400> 275

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cctggggctg ccactgtttt aggaacaaaa gtatgcgcta ctgtctgaaa acaataaag 540
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aaag

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604

<210> 276

<211> 1381

<212> DNA
<213> Homo sapiens

<220>
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<222> (1348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>
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<222> (1359)
<223> n equals a,t,g, or c

<400> 276
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c 1381

<210> 277

<211> 1149

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1088)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1140)

<223> n equals a,t,g, or c

<400> 277

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ccgagttgc 1149

<210> 278

<211> 811
<212> DNA
<213> Homo sapiens

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<210> 279
<211> 1260
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1252)
<223> n equals a,t,g, or c

<400> 279
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<210> 280

<211> 1668

<212> DNA

<213> Homo sapiens

<400> 280

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ttgattgtsa cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 180
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agtgccttg ttagatggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1668

<210> 281

<211> 2328

<212> DNA

<213> Homo sapiens

<400> 281

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gaagcatata aactccgtgc agccagatta gtagaaattg ctgcaaaaaa ccttcaaaaa 180

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gaagtgattc acagaaaaag caaggaggtg gcttggaacc taacttctgt tgaccttgtt 240
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<210> 282

<211> 956

<212> DNA

<213> Homo sapiens

<400> 282

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tgccggggtt ccgccgcgcg ttccctgagg agccgcacgt gccgctggag carcgcgcg 180
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<210> 283

<211> 1402

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1394)

<223> n equals a,t,g, or c

<400> 283

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1402

<210> 284

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 284

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<210> 285

<211> 1339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1331)

<223> n equals a,t,g, or c

<400> 285

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<211> 926
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<222> (20)
<223> n equals a,t,g, or c

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<400> 287

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<210> 288

<211> 3094

<212> DNA

<213> Homo sapiens

<400> 288

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<210> 289

<211> 1983

<212> DNA

<213> Homo sapiens

<400> 289

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<210> 290

<211> 1298

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (1231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

<223> n equals a,t,g, or c

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<210> 291

<211> 2459

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<221> misc feature

<222> (4)

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<221> misc feature

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<220>
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<210> 292
<211> 570
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

<400> 292
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<210> 293
<211> 2468
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2076)
<223> n equals a,t,g, or c

<400> 293
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<210> 294

<211> 1080

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1038)

<223> n equals a,t,g, or c

<400> 294

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<210> 295

<211> 2695

<212> DNA

<213> Homo sapiens

<400> 295

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tccatatata cagaaattag acaaataata agtcttttagt tcaacttaag catatctcaa 180
atgactttctc taaattttaa gttgatcatg ataggatcat aaaagacaga aaagacttaa 240
gtaatcttgt aatgacaatt atttccattt ttgctgaact aaaaaatatt aacttcataa 300
atatgttact acagcttcca gatttaaaga aaaaaagttt cccccactct caattaaaag 360
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tctgtaccat tttacgaatt tctgtcttca taatataagt gaaaatactg tcatttcaat 480
tttctgcttt aaattgtttt taataagcat yccaaagtga tacagactta agcttttaat 540
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<210> 296

<211> 1394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1238)

<223> n equals a,t,g, or c

<400> 296

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acaccaaaaa aaaa 1394

<210> 297

<211> 998

<212> DNA

<213> Homo sapiens

<400> 297

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acattccttg tgacgactgc gcatgctcgg aaaggggacg caatcragat cccaaacgcg 180

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 998

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<210> 298

<211> 1666

<212> DNA

<213> Homo sapiens

<400> 298

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<210> 299

<211> 2444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

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2444

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<210> 300

<211> 1026

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<400> 300

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<210> 301

<211> 830

<212> DNA

<213> Homo sapiens

<400> 301

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<210> 302
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

```

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<220>
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<222> (3232)
<223> n equals a,t,g, or c

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<220>
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<222> (3280)
<223> n equals a,t,g, or c

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<400> 302
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<210> 303

<211> 475

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

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<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>
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 <222> (470)
 <223> n equals a,t,g, or c

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 aaaaaaaaaat cctgtcttgt tcataaattg acaatgtcaa taaattgaaa tatggttcac 420
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<210> 304
 <211> 2902
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2888)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2891)
 <223> n equals a,t,g, or c

<400> 304
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2902

<210> 305

<211> 1553

<212> DNA

<213> Homo sapiens

<400> 305

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cctctggtct atctcatgaa acctcttctc agaccagttt tctaaacata tattgaggaa 1500
aaataaagcg attggttttt ctttaaggtaa aaaaaaaaaa aaaaaaactc gag 1553

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<210> 306

<211> 1987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (731)

<223> n equals a,t,g, or c

<400> 306

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catttcc
1987

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<210> 307

<211> 785

<212> DNA

<213> Homo sapiens

<400> 307

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aaaaa
785

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<210> 308

<211> 2178

<212> DNA

<213> Homo sapiens

<400> 308

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<210> 309

<211> 875

<212> DNA

<213> Homo sapiens

<400> 309

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<210> 310

<211> 756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (756)
<223> n equals a,t,g, or c

<400> 310
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tgtagtaata aattttcata tgccaaaaaa aaaaaaaaaa aaaaaaaagg gsgggcscyc 600
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<210> 311
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (834)
<223> n equals a,t,g, or c

<400> 311
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ccaggagcac agctgtgatg aacagtactt gtgtcagttc tgtgaacatg aaactaatga 120
tccagaagac ttgcatagcc atgtggtaaa tgagcatgca tgtaaatata tagagttaag 180
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tgtaaacagg catgttgcta ttgaacatac aaaaatTTTT cctcatgttt gtgatgactg 360
tgggaaaggc ttttcaagta tgctagaata ttgcaagcat ttaaattcac atttatctga 420

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gtttggaaat gaaaggggaat taataagtca ccttccagtc catgagacaa cttgattatt 600
ctctttaact tacagaatgt tagtttaaaa taataaattc atcctttttt tggagatgat 660
taaattggatg attgtaaaca caacttatga aatctgcctt taacaagtaa ctttttttaa 720
ttataaaatt ttattggcat tgctccattt tctgtatata aatatacttt taatgtggta 780
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ctcactaatc c 851

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<210> 312

<211> 1335

<212> DNA

<213> Homo sapiens

<400> 312

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ccccagcccc aaaggaggct gttcgagagg gacgtcctcc ggagccaacc ccagccaaac 300
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<210> 313

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<400> 313

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ctgagggagg cgcgagggcg cggagttcca ggtcgagcag ttaggccgag agcgactgcg 120
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ggcccccaag accatcgtgc ggggcagcaa argtgccaaa gatggggccc tcacgctgct 480
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<210> 314

<211> 1833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (625)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1766)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1792)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1806)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1827)

<223> n equals a,t,g, or c

<400> 314

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<210> 315

<211> 1354

<212> DNA

<213> Homo sapiens

<400> 315

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1354

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<210> 316

<211> 2421

<212> DNA

<213> Homo sapiens

<400> 316

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tgctttccat ccagtatgct a

2421

<210> 317

<211> 1092

<212> DNA

<213> Homo sapiens

<400> 317

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<210> 318

<211> 1380

<212> DNA

<213> Homo sapiens

<400> 318

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<210> 319

<211> 2612

<212> DNA

<213> Homo sapiens

<400> 319

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<210> 320

<211> 943

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 320

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<210> 321

<211> 2959

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2956)

<223> n equals a,t,g, or c

<400> 321

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<210> 322

<211> 802

<212> DNA

<213> Homo sapiens

<400> 322

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<210> 323

<211> 1724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 323

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<210> 324

<211> 2261

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<400> 324

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<210> 325

<211> 1213

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 325

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actccttggt gcctgcctga tccctccaat caccacagga ctattcctag ccattgacta 180
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ccacctccta ttcttgacg aaacgggac aaacaacccc cttagaatca cctcccattc 660
cgataaaaac accttcacc cttactacac aatcaaagac gccctcgggt tactctctt 720
ccttctctcc ttaatgacat taacactatt ctaccagac ctctaggcg accagacaa 780
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```



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actatccatc ctcatcctag caataatccc catcctccat atatccaaac aacaaagcat 960
aatatttcgc ccactaagcc aatcacttta ttgactccta gccgcagacc tcttcattct 1020
aacctgaatc ggaggacaac cagtaagcta ccccttttacc atcattggac aagtagcatc 1080
cgtactatac ttcacaacaa tccataatcct aataccaact atctccctaa tkgaaaacaa 1140
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1213

<210> 326

<211> 2764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2128)

<223> n equals a,t,g, or c

<400> 326

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gggacaagaa tgccctcctta cagctgctgc aaaaggagaa ggagaagctg actgtgctgg 180
aaaggagata ccactcactc acagggggca ggcctttccc gaagaccaca tcgaccctca 240
aagaggttta ccgctccaag atggatggcg aggcaccag ccccttccc cggaccgcga 300
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aagaagaaaa gtagaggtgg ctttgctgcc tctggggagc ccagaacttg cagtaaccct 1680

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ccaggctggg gggtttcagt atttgtaagc atttcagcag aacaataaag cctttggact 2700
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<210> 327

<211> 1764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1762)

<223> n equals a,t,g, or c

<400> 327

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acgaccccaa cgccctgtat tgcatttgcc gccagcctca caacaacagg tttatgattt 120
gctgtgaccg ctgtgaagaa tggtttcatt gcgatttgtt gggcatttct gaggtctcag 180
ggaggctttt ggaaagggaat ggggaagact atatctgccc aaactgcacc attctgcaag 240
tgacggatga gactcattca gaaacggcag atcagcagga agctaaatgg agacctggag 300

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atgctgatgg caccgattgt acaagtatag gaacaataga gcagaagtct agcgaagacc 360
aagggataaa gggtagaatt gagaaagctg caaatccaag tggcaagaag aaactcaaga 420
tcttccagcc tgtgatagag gcgcctgggt cctcaaaatg tattggcccc ggggtgctgtc 480
acgtggcgca cccgactcgg tgtactgcag taatgactgt atcctcaaac acgccgcagc 540
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tgcaatttta atgttttctt gtttctcagt tttctgctat aaaactattt tcaattcagt 1740
ctttaaaaaa aaaaaaannt cnaa

```

1764

<210> 328

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<400> 328

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ttccctttaa gatatgtgca ggatcaagtt gcggcacctt ttcagctgag taaccacact 120
ggccgcatca aggtggtctt tactccgagc atctgtaaag tgacctgcac caagggcagc 180
tgtcagaaca gctgtgagaa ggggaacacc accactctca ttagtgagaa tggatcatgt 240
gccgacaccc tgacggccac gaacttccga gtggtaattt gccatcttcc atgtatgaat 300
ggtggccagt gcagttcaag ggacaaatgt cagtgccttc caaatttcac agggaaactt 360
tgtcagatcc cagtccatgg tgccagcgtg cstaaacttt atcagcatte ccagcagcca 420
ggcaaggcat tggggacgca tgtcatccat tcaacacata ccttgccctt gaccgtgact 480
agccagcagg agtcaaagtg aaatttcctc cttaacatag tcaatatcca tgtgnaacat 540

```

cctcctgaag cttccgtcca gatacatcag g

571

<210> 329

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<400> 329

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cacgtagtaa tctttaaata taaatagcca cgtgtgnact actatcatat gggacagaac 60
agttccagac cacattattg ataagatgtg ttaaaataaa taagatcttt ctgtgaactt 120
ttgggaacca aatgggtttg ggcattgattt cccagctcat tatatattga cacagaattt 180
tttcagaatg gcattttacta gtaccccaga aatttagcaa agtatagtta ggtacttatt 240
gtaaaatata ttgcataattt gatttaaggt ttgttatgaa cacactaatc tgatatttta 300
tatttaaacc attttcaatk ctgtaagact cagtaagagc tatttaatta tactgwaaca 360
aagaaaatct ataaataaat agcacaataa ggcacatgcg ggtgtataat actgaagtgg 420
tagtttttaa tttccgaaga gaataagcnc ttcaggccca ttagaancac aga 473

```

<210> 330

<211> 1335

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1004)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1333)
<223> n equals a,t,g, or c

<400> 330
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gacatggagc agccctgctg ctgaggccgc gccctccccg ccctgaggtg ggggcccacc 120
aggatgagca agctgcccag ggagctgacc cgagacttgg agcgagctg cctgccgtgg 180
cctccctggg ctccctactg tcccacagcc agagcctctc ctgcacctc cttccgccgc 240
ctgagaagcg aagggccatc tctgatgtcc gccgcacctt ctgtctcttc gtcaccttcg 300
acctgctctt catctccctg ctctggatca tcgaactgaa taccaacaca ggcacccgta 360
agaacttgga gcaggagatc atccagtaca actttaaaac ttccttcttc gacatctttg 420
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ctggtgggtg attgcggtca cgacgctggt gtccagtga ttcctcattg tcaaggctcat 540
cctctctgag ctgctcagca aaggggcatt tggctacctg ctccccatcg tctcttttgt 600
cctcgccctg ttggagacct ggttccttga cttcaaagtc ctaccccagg aagctgaaga 660
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tttgacntt gtnrg
1335

<210> 331
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (982)
<223> n equals a,t,g, or c

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<220>

<221> misc feature

<222> (997)

<223> n equals a,t,g, or c

<400> 331

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attggccttg agacatggtt ttttgtggtt gcagctgcag ctgtccccc gtcttttaac 120
tcgacatcaa aagcctctct cctgccagtg ccatagggtt gtttagagcta ctgttttgta 180
acagctgctc aggtgtcccc aaactccttg agttttccac ccttagctgt taaaaacctg 240
ccctgcctgt caccatttc tgtgccacca gcccaccccc tgctccact ctctccctg 300
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ggaggtgatc ctgcagcccc agaggatggt gctgtggaac aagacagtga ctgcctgcca 480
gatcctgcag cgagtgggaag acaacacctt catctcctat gacgtgtctg caggggctgc 540
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ctggccccag gcwgtmamcc tncamcagc cacgcantcc tgggagttga tgaatgaaca 1020
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```

<210> 332

<211> 1311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<400> 332

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agcagccag aaattttatg aataagcatc agaagccagt gctaacaggc cagcggttca 180
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gcagtatgct tgcccctgga ggaacgcgca tagatgatgg tgacaagacc aagatgacca 420
accactgtgt gttttcagca aatgaagatc atgaaacat ccgaaactat gctcagggtc 480
tcaataaact catcaggaga tataagtatt tggagaaggc atttgaagat gaaatgaaa 540
agcttctcct cttccttaaa gccttttccg aaacagagca gacaaagttg gcgatgctgt 600
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tggcagaaaa agatgccaac tctgttacct cgtctttgag aaaagccaac ttagacaaga 780
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ggaaggaact gcagaaggag ctccaggagc gtctttctca ggaatgcccy atcaaggagg 960
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atttcatgaa agcctttcag aagattgtgc ttccttatac catttcagta ttgcttcttc 1260
gctcagaaca tcagctttan tcgtgccgat tcggcacgag cggcacgagc c 1311

```

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<210> 333
<211> 1444
<212> DNA
<213> Homo sapiens

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<400> 333
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ccacaggccc ctccccagc ctacgttcac agctgccctg ttgcagggag gcggtggccc 180
ttctgttget agaccgagcc tgtgggatat accaaggcag aggagcccat agccatgagg 240
agcctcgggg ccctgctctt gctgctgagc gcctgcctgg cggtagagcg tggccctgtg 300
ccaacgccc cgcacaacat ccaagtgcag gaaaacttca atatctctcg gatctatggg 360
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caggacttca gagtgggtgc ccagggtgtg ggcacccctg aggactccat cttcaccatg 780
gtcgaccgag gtgaatgtgt ccctggggag caggaaccag agcccatctt aatcccaga 840
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aacgggaaca agttctactc agagaaggag tgcagagagt actgcggtgt ccctgggtat 1260
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tggccagtggt ctgtcccggg gtccctgtggc aggcagcgcc aagcaacctg ggtccaaata 1380
aaaactaaat tgtaaaactcc tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
aagg 1444

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<210> 334
<211> 1030
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

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<220>

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<221> misc feature
<222> (989)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1006)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1023)
<223> n equals a,t,g, or c

<400> 334
tagaattcgg agaagctgaa gcttagtggt ctaaaccggtg gttgggaagg gggaaggang 60
acctcatgga cgtgcctggg ggtgtggctt ggcttccctt gattttggcc ggtggatgac 120
gctgtcctga ccacacccac tccttgetgc agcertgkag tottccactt tcgccttggt 180
gcctgtcttc gccacactga gcacccctca gagcctcgtg ccagctgctg gtgcagcctc 240
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ctgagcgagt tgatttcaca gctctcctcc ctctggagcc tcccttacc cccggcacc 540
tcccccaacc tcccccaacc ccacctgacc tggaaagctat ggccctccct ctcaagaagg 600
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cgccactacc accaccacca ctaccaccag cccctccct cccctgtcc ctccctcct 720
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acgaggccgg gcaggaggaa gtggggatgc cgcctctgcc cccgccacag cagccccctc 840
ctcctctctc acctcaacct tctgcctgg gccccctacc cacatcctgc caccaccga 900
ggggaccgca agcaaaagaa gagagaccag aacaagtcgg cggtytgag gtaccgccag 960
cggaaggggg caggaggggt tgagggcynk gggaagggga agttgncagg gggttgggaa 1020
ggnaagggaa 1030

<210> 335
<211> 2127
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2098)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (2114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2117)

<223> n equals a,t,g, or c

<400> 335

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ggatctgagg aaagggagg cttttctgat ctctcccaat tagaggatta ggcaattggc 60
agcgagtg gntaactctg ggcggggctg ggctccagg ctggacagca cagtccctct 120
gaactgcaca gagacctcgc agccccgaga actgtcgccc ttccacgatg tggctccgtg 180
cctttatcct ggccactctc tctgcttccg cggttgggc agggcatccg tcctcgccac 240
ctgtgggtga caccgtgcat ggcaaagtgc tggggaagt cgtcagctta gaaggatttg 300
cacagcctgt ggccattttc ctgggaatcc cttttgccaa gccgcctctt ggacccctga 360
ggtttactcc accgcagcct gcagaaccat ggagctttgt gaagaatgcc acctcgtacc 420
ctcctatgtg cacccaagat cccaaggcgg ggcagttact ctgagagcta ttacaaacc 480
gaaaggagaa cattcctctc aagctttctg aagactgtct ttacctcaat atttactctc 540
ctgctgactt gaccaagaaa aacaggctgc cggtgatggg gtggatccac ggaggggggc 600
tgatgggtgg tgcggcatca acctatgatg ggctggccct tgcctgccat gaaaacgtgg 660
tgggtggtgac cattcaatat cgcctgggca tctggggatt cttcagcaca ggggatgaac 720
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acattgccag ctttggaggg aaccagggct ctgtgacct ctttggagag tcagcgggag 840
gagaaagtgt ctctgttctt gttttgtctc cattggccaa gaacctcttc caccgggcca 900
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tatctctgga cttacaggga gacccagag agagtcaacc ccttctgggc actgtgattg 1140
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tcccctacat ggtcggaatt aacaagcagg gtttggctg gtgattcca atgcagttga 1260
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tgatgttttg tgtcccatct gtgattgtgg cccggaacca cagagatgct ggagcaccca 1500
cctacatgta tgagtttcag taccgtccaa gcttctcctc agacatgaaa cccaagacgg 1560
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gtgcctcaga agaggagatc agacttagca agatgggtgat gaaattcttg gccaaacttg 1680
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gtcttttgcg aaagggattg caggttcaga aggcattcta ccatggctgg ggaattgtct 1980
gggtgggtgg ggcaggggac agaggccatg aaggagcaag ttttgtattt gtgacctcag 2040
ctttgggaat aaaggatctt ttgaaggcca aaaaaaaaaa aaaagggcgc ctttttangg 2100
gttcccaatt tacnaanggg tgcttgg 2127

```

<210> 336

<211> 847

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (829)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (847)
<223> n equals a,t,g, or c

<400> 336
ccgccatgcc gttcctggag ctggacacga atttgccgc caaccgagtg cccgcggggc 60
tgagaaaacg actctgcgcc gccgctgcct ccatacctggg caaacctgcg gacggaccac 120
tccccactcc ttctctcagc ccaagctctg actttccgtg ctccacgac ccgcggctcc 180
ccctccgcac gtctttccct tgctgccctc cccagtcag acccgggcgt gaccttcagg 240
gaccgcggcc cgtatcggga tccctgcccc gcgaacactg cgcgtttcgg ntctcgcgcg 300
ctcgggtccc gtccccagag gtagcccgcc cggntccaac ttcgggcaaa attttcatgt 360
ccccctgcgg accgcgtgaa cgtgacggta cggccggggc tggccatggc gctgagcggg 420
tccaccgagc cctgcgcgca gctgtccatc tcctccatcg gcgtagtggg caccgcccag 480
gacaaccgca gccacagcgc ccacttcttt gaggtttctca ccaaggagct agccctgggc 540
caggaccgga tacttatccg ctttttcccc ttggagtcct ggcagattgg caagataggg 600
acggatcatga cttttttatg attgggcacg gagggatcca gggcatctgt gaactggctg 660
cttcttccag agagatctct tggcagagtg agggcctgga gataaccagc tttggattat 720
cccgcagcga acattcctgt gatcacataa tcctcttctt catcctcata tgaaataaat 780
gaagagagct tcctcattca aaaaaaaaaa aaaaaaaccc cgggggggnc cggtaaccca 840
ttggccn 847

<210> 337
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (669)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (679)
 <223> n equals a,t,g, or c

<400> 337
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 ccgcctcttc cgctgcgtgc cggaccatgg cgcaggggca gcgcaagttt caggcgcaca 120
 aaccgcgcaa gagtaagacg gcagcggcan cctctgaaaa gaatcggggc ccaagaaaag 180
 gcggtcgtgt tatcgctccc argaaggcgc gcgtcgtgca gcagcaaaag ctcaagaaga 240
 acctagaagt cggaaatccg aagaagatcg aacatgacgt ggtgatgaaa gccagcagca 300
 gcctgcccga gaagctggca ctgctgaagg cccagccaa gaagaaagg gcagctgccg 360
 ccacctctc caagacacct tctgaggac gctggccca gtgcaggcca acatcccacc 420
 cctacctcc atatgggacc ttgcaagtca tcccacagg tgcactgtca ggaagaggac 480
 cctgtccccc agcactgggc ttcacctaga acttcagtgg gggccaagg tgctgagaac 540
 ccagcaatga ccaggaagat acagtcacta acttcacttg tcccgtgcc ccttcccagg 600
 tcctgcctcc acaggtttaa cccagaacaa taaacctggc tttgtcaama aaaaaaaaaa 660
 agggccggnc gtttttagang atccagctta cgtaccgtgc tt 702

<210> 338
 <211> 875
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (791)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (813)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (830)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (861)
 <223> n equals a,t,g, or c

<400> 338

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taagatagca aaccagttcg ttttaagtaa gctaaacttgt tcattagtat ctgtggctta 60
aaatggcaaa aaagaaaata tccttgagtt tgtaatctag ttacagaagt aaggcataca 120
cacacacaaa gataacagta cctagagaga gagtgtgtgt gagtgtgcgt gtctctgtgt 180
gtgcacgtgc acgctcatgg ccaaattgtgc gcactctaca taaaggaggc aggagttcct 240
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ttccgcaaca cagaaatgac tcagaatctc agacaaaatg tattatttgt tcaattttaa 360
ttttgctact acattcataa ctcttaaatt gttaggctgt ttcatttaca tcaaagttat 420
ctcacaaaag agaaggcagg aaacgttttg tgagtgccta ttctatgtca aacactgtgt 480
tggcaccata ttttacaagt ttttttcctc ttctcacagt gatcttgtga gttagttact 540
tatattttta ttagaactca ttattctggg taccctccaa tgagaattag agaggttaaa 600
taccttttcc tagattccca cagcaggaag gtgggcatag ctgttttgtc tgacaccaga 660
acccatctca ccacactgct ttacagtctt cctgaaggga cattttgagg tggggggggg 720
ccttcaaagc tcagaggact ggggtttkga tggttttaat ttttgcaagg gatccatgtc 780
catgccaggg ngttttacaat tctttaactt cntcccaaa ttcgtgtgtn ccattaggga 840
catttgggtt acatccgggc nggggagggt caggg 875

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<210> 339

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<400> 339

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cagcgccact agcctcattg tgcccaggag ttctccaaac ccgcgctgcg gagtgagtga 60
ccaagttccg gccagttcga cctcgaggat ccagagggtg agacggtact acctcccagc 120
tctgttttcc atccccttca ggtccttcct cgggaggcgg cgaaggcggg ccaccctgcg 180
cgtgatcctt yatgcccggc ccctgcccct ccctccgggt ggaacttccc cctcacccgc 240
agacttaagc tgaggatcgt tggatctctg gcgggggtgca gaactgagcc caggccacag 300
tacctattc acgctctgtg cttgtgcca gggggcaatg gcggttccct gtgttctact 360
gcacactggg cagaagatgc ctctgattgg tctgggtacc tggaagagtg agcctggtca 420
ggtaaaagca cgtgttaagt atgcccttag cgtaggctac cgccacattg attgtgctgc 480
tatctacggc aatgagcctg agattgggga ggccctgaag gaggacgtgg gaccaggcaa 540
ggcgggtgct cgggaggagc tgtttgtgac atccaagctg tggaacacca agcaccaccc 600
cgaggatgtg gagcctgccc tccggaagac tctggctgac ctccagctgg agtatctgga 660
cctgtacctg atgactggc cttatgcctt tgagcgggga gacaaccct tcccagaaga 720
tgctgatggg actatatgct acgactccac ccactacaag gagacttggg aggctctgga 780
ggcactggtg gctaaggggc tgggtgcaggc gctgggcctg tccaacttca acagtcggca 840

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tgcttatagc cctttgggct cctctgatcg tgcattggcg gatectgatg agcctgtcct 1020
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gctaaatgcc ctgaacaaaa attggagata tattgtgcct atgcttacgg tggatgggaa 1260
gagagtccca agggatgcag ggcacacctt gtaccccttt aatgaccctg actgagacca 1320
cagcttcttg gcctcccttc cagctctgca gctaattgagg tcctgccaca acggaagag 1380
ggagttaata aagccattgg agcatccaaa aaaaaaaaaa aaaaaanayc tngsggccgn 1440
caagggaa 1448

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<210> 340

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (838)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 340

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aattcggcac gagctggcct gagaagccaa ctcagactca gccaacagag attgttgatt 60
tgccctcttaa gcaagagatt cattgcagct cagcatggct cagaccagct catacttcat 120
gctgatctcc tgccctgatgt ttctgtctca gagccaaggc caagaggccc agacagagtt 180
gccccaggcc cggatcagct gcccaagaag caccaatgcc tatcgctcct actgctacta 240
ctttaatgaa gaccgtgaga cctgggttga tgcagatctc tattgccaga acatgaattc 300
gggcaacctg gtgtctgtgc tcaccaggc cgaggggtgcc tttgtggcct cactgattaa 360
ggagagtggc actgatgact tcaatgtctg gattggcctc catgacccca aaaagaaccg 420
ccgctggcac tggagcagtg ggtccctggt ctctacaag tcctggggca ttggagcccc 480

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aagcagtgtt aatcctggct actgtgtgag cctgacctca agcacaggat tccagaaatg 540
gaaggatgtg ccttgtgaag acaagttctc ctttgtctgc aagttcaaaa actagaggca 600
gctggaaaat acatgtctag aactgatcca gcaattacaa cggagtcaaa aattaaaccg 660
gaccatctct ccaactcaac tcaacctgga cactctcttc tctgctgagt ttgccttgtt 720
aatcttcaat agttttacct accccagttt ttggaaccyt aaataataaa aataaacatg 780
tttcactaa aaaaaaaaaa aaaaaaaamt cncagggggg gnccggtanc caattcgnc 840
naa 843
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<210> 341

<211> 1293

<212> DNA

<213> Homo sapiens

<400> 341

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acggatatcc tctgttgggg gagaagcaac attttgtgat tttccaaaaa taaaccatgg 180
aattctatat gatgaagaaa aatataagcc attttcccag gttcctacag gggaggtttt 240
ctattactcc tgtgaatata attttgtgtc tccttcaaaa tcattttgga ctgcataac 300
atgcacagaa gaaggatggt caccaacacc aaagtgtctc agactgtgtt tctttccttt 360
tgtggaaaat ggtcattctg aatcttcagg acaaacacat ctggaagggtg atactgtgca 420
aattatttgc aacacaggat acagacttca aaacaatgag aacaacattt catgtgtaga 480
acggggctgg tccaccctc ccaaatgcag gtccactgac acttcctgtg tgaatccgcc 540
cacagtacaa aatgctyata tastgtcgag acagatgagt aaatatccat ctggtgagag 600
agtacgttat saatgtagga gcccttatga aatgtttggg gatgaagaag tgatgtgttt 660
aatggaaaac tggacrgaac cacctcaatg caaagattct acrggaaaat gtgggcccc 720
tccacctatt gacaatgggg acattacttc attcccgttg tcagtatatg ctccagcttc 780
atcagttgag taccaatgcc agaacttgta tcaacttgag ggtaacaagc gaataacatg 840
tagaaatgga caatggtcag aaccaccaa atgtttacat ccgtgtgtaa tatcccgaga 900
aattatggaa aattataaca tagcattaag gtggacagcc aaacagaagc tttattygag 960
aacaggtgaa tcagytgaat ttgtgtgtaa acggggatat cgtctttcat cacgttctca 1020
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gaatcaatca taaartgcac acctttattc agaactttag tattaaatca gttctyaatt 1140
tcatttttwa tgtattgttt tactcctttt tattcatagc taaaattttg gattaatttg 1200
tgaaaatgta attataagct gagaccggtg gctctcttct taaaagcacc atattaaatc 1260
ctggaaaact aaaaaaaaaa aaaaaaaact cgc 1293
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<210> 342

<211> 1273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1247)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1262)
<223> n equals a,t,g, or c

<400> 342
gcccangcgg ccgcgagggc ccgccgccgc cgccgcagcc gccggagccg caatgcctaa 60
aggaggaaga aagggaggcc acaaaggccg gccgagggcag tatacaagcc ctgaggagat 120
cgacgcgcag ctgcaggctg agaagcagaa ggccagggaa gaagaggagc aaaaagaagg 180
tggagatggg gctgcagggtg accccaaaaa ggagaagaaa tctctagact cagatgagag 240
tgaggatgaa gaagatgact accagcaaaa gcgcaaaggc gttgaagggc tcatcgacat 300
cgagaacccc aaccgggttg cacagacaac caaaaaggtc acacaactgg atctggacgg 360
gccaaaggag ctttcgagga gagaacgaga agagattgag aagcagaagg caaaagagcg 420
ttacatgaaa atgcacttgg ccgggaagac agagcaagcc aaggctgacc tggcccggct 480
ggncatcatc cggaacacgc gggaggaggc tgcccggaa aaggaagagg aaaggaaaagc 540
aaaagacgat gccacattgt caggaaaacg aatgcagtca ctctccctga ataagtaact 600
gcgaccctg ggaggagatg ccggggacct gggccgcgct gccaggacct ctgctgtgtc 660
tcgcccaccc tgtgccctgg cgccgctgca acagcccctc atggccagga gccccccatg 720
gcctggggcc tcctcttcat cttggcacag aaattgtttg ggggatggg ggggggactg 780
ggggaggggt agctgctatc tttgagacag aaagrkyag aagagctttc atttgtcttg 840
tagatagata gcatgtaagg ggggtggtgt cccaggaggc agctgctgac aggtttgcta 900
cacacagccc cgactgtgt tgctgggtg ctcatcaga gaggggctat catctgggag 960
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ctcagggcct cacctctctg cccttccctg cccggttcc actcacctgg ctagggccag 1080
tgccatttt cagccctacc cattgatcat ttcaagaaac ctctgtttac tgtgtggcac 1140
ccaggcaaaa catgctccac aaattcaact tgtatatttg gcagattaaa cttgacatta 1200
tcgtaaaaaa aaaaaaaaaa atttgggggg gggcccggta cccattnggg cccttagggg 1260
gnggtttaaa tta 1273

<210> 343
<211> 1793
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1267)
<223> n equals a,t,g, or c

<400> 343

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<210> 344

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

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<222> (95)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1667)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1668)

<223> n equals a,t,g, or c

<400> 344

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<210> 345

<211> 2109

<212> DNA

<213> Homo sapiens

<400> 345

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<210> 346

<211> 1714

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<400> 346

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1714

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<210> 347

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1667)

<223> n equals a,t,g, or c

<400> 347

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1672

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<210> 348
 <211> 1483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<400> 348
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<210> 349
 <211> 1842
 <212> DNA
 <213> Homo sapiens

<400> 349
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<210> 350

<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<400> 350

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<211> 2756
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<213> Homo sapiens

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<222> (1597)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2540)
<223> n equals a,t,g, or c

<400> 351
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<210> 352

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1596)

<223> n equals a,t,g, or c

<400> 352

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<210> 353

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<400> 353

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<210> 354

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 354

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<210> 355

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<400> 355

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gcctccgtcc gggccctgct gtttgamatc tccttctca tgctgtgcca tgtggcccag 180

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acctatggtt caraggtgat tctgtccgag tcgcgcacag gagctgaggt gcccttcttc 240
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738

<210> 356

<211> 1966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1753)

<223> n equals a,t,g, or c

<400> 356

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<210> 357

<211> 1562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<400> 357

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tttgagggcc cagttcttga tcacaggtat tatgcagggt gatgctcccc gcattacatc 180
ctgaacacga ggtttaggaa gccctacaat gtggaaagct acacgccaca gacccaaggc 240
aaatacgaat tcatattaan anagtatgaa tcatactcag attttgaacg caatgtcaca 300
gagaaaatgg caagcaagtc tggtttcagt ttgggtttta aaatacctgg aatatttgaa 360
cttggcatca gtagtcaaag tgatcgaggc aaacactata ttagggagaac caaacgattc 420
tctcatacta aaagcgtatt tctgcatgca cgctctgacc ttgaagtagc acattacaag 480
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ctggagtaca gctacgggga atacagagat ctcttccgtg attttgggac ccactacatc 600

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acagaggctg tgcttggggg catttatgaa tacaccctcg ttatgaacaa agaggccatg 660
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agggcaaaag gcagtgccat gcaagctgtt taaaataaag atgttacctt gtaaaatgca 1500
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cg 1562

<210> 358

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 358

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cagctgagct cagcaaacac ccgcttcgcc ttggacctgt tcctggcggt gagtgagaac 240
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ttctcgggga ccagaggtaa cacggcagca cagctgtcca agactttcca tttcaacacg 360
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gagttcttgg ttctgactca gaaaacatat ggtgctgacc tggccagtgt ggattttcag 540
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aatgccatct atttcaaggg aaactggaag gataaattca tgaaagaagc cacgacgaat 720
gcaccattca gattgaataa gaaagacaga aaaactgtga aaatgatgta tcagaagaaa 780
aaatttgcat atggctacat cgaggacctt aagtgcctgt tgcctggaact gccttaccaa 840
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ttgtaagttt ggctctgttg gctgtttaca cccatgaatt ttggcatggg tatctatttt 1500
ycttttttac attgaaaaaa atccagtggg tgcttttgaa tgcatcaagt aaagaagaag 1560
aaaagaatac atccgatgcg tagattcttg accatgtagt aatctataaa attgctatat 1620

300

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aattgaaatg taagagagca cccaattga gagcccagggt tacgaagaca agcttgccctc 1800
gcctgacttt tctgtccctt gttctgcagg attagtattc tgttacagac ctctagtttt 1860
tagactcttc aattaaaggg ccaatgggta taacctgcaa aaaaaaaaaa aaaaaaaaaa 1920
aaaaaaaaaa a                                     1931
```

<210> 359

<211> 869

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (869)

<223> n equals a,t,g, or c

<400> 359

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ccaaagtggg tgcactgaag aagatgttgt tggatcaggg gggctttgcc ccgtgttttc 180
taggctgctt tctccactg gtaggggcac ttaatggact gtcagcccag gacaactggc 240
caaactacag cgggattatc ctgatgccct tatcaccaac tactatctat ggctgtgtgt 300
gcakttagcc aacttctacc tgggtccccct tcattacagg ttggccggtt tccaatgtgt 360
tgctgttate tggaactcct acctgtcctg gaaggcacat cggtcttaag cctgcctcac 420
tccatcgttt ccaccttgca gtgatgcagc ttgacctggg aacggtcaga caacctcctc 480
aaagtgggca taccagtttc cacgggggtg ggttgccggg cagagcttaa gaggactagc 540
acctgcaat gcccctcttc actctaaaat ccataaatat ctgttgaacc ttcattgacct 600
tagtcttatt cccaccacat actaggcact ccataaatat ctgttgaacc ttcattgacct 660
tatcaacttt acaccatat cccagcaaat gccactcacc cccactcttc atagacacat 720
ttgttactct aacctgcct aggtctcttg tagctccagc tctttagaga ctcccggaa 780
cctttatatg gtgcctcagt aaatatgtta ttaaatatgt aatccggaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                     869
```

<210> 360

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (525)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<400> 360

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tctctggaga gcagcagcca tggccctacg ctaccctatg gccgtgggccc tcaacaaggg 180
ccacaaagtg accaagaacg tgagcaagcc caggcacagc cgacgccgcg ggcgtctgac 240
caaacacacc aagttcgtgc gggacatgat tcgggagggtg tgtggctttg ccccgtagca 300
gcggcgcgcc atggagttac tgaaggcttc caaggacaaa cgggcccctca aatttatcaa 360
gaaaagggtg gggacgcaca tccgcgccaa gaggaagcgg gaggaagtga gcaacgtact 420
ggccgccatg aggaaagctg ctgccaagaa agactgagcc cctcccctgc cctctccctg 480
aaataaagaa cagcttgaca gaaaaaaaaa aaaaaaaaaa ntcgnggggg ggcccggtac 540
ccattcgcgc tawagggggn g
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561

<210> 361

<211> 1680

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<400> 361

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acccagagcc tgctcttggg aacagccaga gtaagattgg aaccagact tgcaagccag 120
cgctgtttgc attaaaaggg tgggtgagtc aggacccctg gctcargagc cgyctctcct 180
aaaagagggg ttcaaaggcca aatgggtttg tcaacgggtg tgtctccctt tcttgagat 240
gctcattagc ttatcaaaga ctgagaagtc ccgctgttac agaaataatt tagtttgctg 300
tattaactgc tcctgggccc ggagcagtat tcccacctta agattcccag catccctgtg 360
ctgtcccgcc tctcattcat gccgaaggcc caacccattg gctgtgttct gtttgaagat 420
ttggggggcg ccttctcttt cttccccagg gaattctcta gcagagggag gggacccacc 480
ccagttagga agtagattgc tgcctctagc cagagacctg aactggggaa tttgaacatt 540
cctttacatt gttggagaaa tgaagccaaa gttattcaga tggttttccc aggctaaagg 600
aaagtccact gcaagagatc ccggcactga tctggagcag ctgacagggt gggctcctcc 660
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gggtggccac ccgacctgcc cccagaactt ttggatactg gaggcagttg cataggtctc 1440
cctctctggg caccaggact cagtccagcc caagactact ctgggcagct cccatcccag 1500
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tctggggcca tttgcagact caggaaagga tttctacagt gttctataaa agccaaaaga 1560
 gagagtgggt ttgggaagag tgagggtggt tggggagagg ggaccgatgt gcctcattgt 1620
 ttagtggtga ttacaaatat gcttttctgg ataaagtgtg gttgtttgct cttggaaaaa 1680

<210> 362

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (709)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<400> 362

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 ctggcctgga agtttccctt ccagtctgga ttttgtctgc tccttccttc cccctcacc 120
 cgttacctct tcacctccca tctcatttca ctgtgtagct cagtctctcc caccgacata 180
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 gataggctat ctccccacct cccaccctac tccccactat attcccgttt tgaccacctc 360
 agccctcag ctgccccctc tcaactttggc caatcccagg caccaatcag acttctctct 420
 ccacctggag cccctagcat ttccttgctc cctcttcccc aaaacctctg taaagggtac 480
 gagagggacc ccctgccgag ccgcccgcga ctcagggcag tccgatctaa gaagcagaag 540
 ctggttggag gctgggtggg cctctgtcca gtccccagat gggataaact ngccttttct 600
 camatccctt cttgggtgcc tkgatctttc tytgcccccg gggccaggac ccactgtgct 660
 gttttcttgt tcagttttgt ggggaaagga accaaggttt ttgccaagna accagtttct 720
 tgaaaggggt tagggaaggg 740

<210> 363

<211> 1324

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 363

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tggcgagcgg cggagacctc ttcccggggc agccgggtgtc cgaactgac gcgcagctgc 120
tgcgcgctga gccctaccct gcggcgggccg gacgcttcgg cgcagggggc ggcgcggcgg 180
gcgcgggtgct gggcatcgac aacgtgtgcg agctggcggc gcggctgctc ttcagcaccg 240
tggagtgggc gcgccacgcg cccttcttcc ccgagctgcc ggtggccgac caggtggcgc 300
tgctgcgcct gagctggagc gagctcttcg tgctgaacgc ggcgagggc gcgctgcccc 360
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gcgcctggc tttcatggac caggtgcgcg ccttccagga gcaggtggac aagctgggcc 480
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tgctgcggct ccccgccctg cgcgcggtcc ctgcctccct catctcccag ctgttcttca 720
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tagt 1324

<210> 364

<211> 2853

<212> DNA

<213> Homo sapiens

<400> 364

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aatattctta ttttaatacg ctgtagaagg taggtgtgga acctccatgc taccatgtgc 180
acaaacctaa ttatgctttg ggtcacttgt cagttcagta aatctgcctt cctcttctcc 240
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ttataaaaaa aaaaaaaaaa aaaaaaatta ctg 2853
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<210> 365

<211> 1837

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (749)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1816)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1829)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1832)
<223> n equals a,t,g, or c

<400> 365
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gccgagggct gccggnaggg ccaggggcag aggggtggcg cctggccaga cgccttgcca 180
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<211> 1823

<212> DNA

<213> Homo sapiens

<400> 366

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<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<222> (30)
<223> n equals a,t,g, or c

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<211> 1117
<212> DNA
<213> Homo sapiens

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1117

<210> 369

<211> 2226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 369

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<210> 370

<211> 3636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1937)

<223> n equals a,t,g, or c

<400> 370

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<211> 4039

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1085)

<223> n equals a,t,g, or c

<400> 371

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<210> 372

<211> 1599

<212> DNA

<213> Homo sapiens

<400> 372

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<210> 373

<211> 464

<212> DNA

<213> Homo sapiens

<400> 373

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464

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<210> 374

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 374

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890

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<210> 375

<211> 1874

<212> DNA

<213> Homo sapiens

<400> 375

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attacacacc tgacatgaac cgtgaggatg ttgactacgc aatccggaaa gctttccaag 480
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aaaaaaaaaa aagc 1874

<210> 376

<211> 2018

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1997)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2012)

<223> n equals a,t,g, or c

<400> 376

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2018

<210> 377

<211> 818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<400> 377

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818

<210> 378

<211> 2565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2565)

<223> n equals a,t,g, or c

<400> 378

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<210> 379

<211> 1680

<212> DNA

<213> Homo sapiens

<400> 379

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aatagttaca cacaagaggg aaactggaag ccaaacactg tacagtattg ttagaaagt 180
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gttttttaaa tgtatttttg ccctgaatta agtggttaatt tgatggaaac tctgctttta 1620
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<210> 380

<211> 1267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1262)

<223> n equals a,t,g, or c

<400> 380

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atgtatatgg ctttactcaa gcaratctca tctcatgaca ggcagccacg tctcaacatg 180
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gtcaagattt tacttggcat tgagtagttt ttttcaatag taggtaattc cttagagata 360
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atacatatat gagttgccta tatttgctat tcaaaaattt gtaaatatgc aaatcagctt 480
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ataaccatga atacacttac agttaggatt tgtggttaagg tacctctcaa cattaccaa 600
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gcactgatta aaataggatt attttaarta caaaaggcat tttatatgaa ttataaactg 720
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anaaatt
1267

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<210> 381

<211> 1031

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1015)

<223> n equals a,t,g, or c

<400> 381

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gccactggaa aacctttcag gccgccccca tcagtgggct ccaaagtaaa tggctgaaaa 120
caaaaaatggt tcaacttccta acagttttcc tttttccact gtgtgactga aagctcctat 180
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tacgtacctt aaggcaccca gttcactagt ctgtggggtc ctggagcctg tctcttcttt 360
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<210> 382

<211> 1597

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1597)

<223> n equals a,t,g, or c

<400> 382

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agcggctgtc caatcgagtc gtgcgtgtgt tgggctgtaa ccggggtccc atgacctcc 180
aaggcaccaa cacctaccta gtggggaccg gccccaggag aatcctcatt gacactggag 240
aaccagcaat tccagaatac atcagctgtt taaagcaggc tctaactgaa tttaacacag 300

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agagagaaga aattatagga aatggagagc aacaatatgt ttatctgaaa gatggagatg 480
tgattaagac tgaggggagcc actctaagag ttctatatata ccctggccac actgatgac 540
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attcatgcaa atgaattttt ggtgattgaa aaatattaaa ttcccaattt aaagtaaaaa 1560
aaaaaaaaaa aaaaaangnc cccggggggg ggccggn 1597
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<210> 383

<211> 175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<400> 383

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ccaaacatct actacaaggt atgagggctc ctctnacgtg gctatcctga atccagccct 120
tcttgggggtg ctctccagt ttaaattcct ggtttraggg acamctstaa catct 175
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<210> 384

<211> 2171

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2170)

<223> n equals a,t,g, or c

<400> 384

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cggacttcct gggaaagtgg ggaaggccaa ggggaaaaaa acacaaatgg ctgaagtttt 180
gccttctccg cgtggtcaaa gagtcattcc acgaataacc atagaaatga aagcagagggc 240
agaaaagaaa aataaaaaga aaattaagaa tgaaaatact gaaggaagcc ctcaagaaga 300
tgggtgtggaa ctagaaggcc taaaacaaag attagaaaag aaacagaaaa gagaaccagg 360
tacaaagaca aagaaacaaa ctacattggc atttaagcca atcaaaaaag gaaagaagag 420
aaatccctgg tctgattcag aatcagatag gagcagtgac gaaagtaatt ttgatgtccc 480
tccacgagaa acagagccac ggagagcagc aacaaaaaca aaattcacia tggatttggg 540
ttcagatgaa gatttctcag attttgatga aaaaactgat gatgaagatt ttgtcccatc 600
agatgctagt ccacctaaga ccaaaacttc cccaaaactt agtaacaaag aactgaaacc 660
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<210> 385

<211> 2364

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<400> 385

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gcctaccaga tgccagtcac cgcacaaggc actgggtata tggatcccc aaacaagaga 180
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<210> 386

<211> 2864

<212> DNA

<213> Homo sapiens

<400> 386

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agaagccctt tgctgcagcc aattatcgag ggcgaaactg cttccttctt caaggagata 240
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ctgaaaaccg atttcagtg cagatgcttt ctggaycaat tcgaagatga cgctgatgga 360
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caccaagtaa gttatataaa ataaaaaaaa aaaaaaaac tcga 2864

<210> 387

<211> 2683

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2649)
<223> n equals a,t,g, or c

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tttccctagat ccacactttc aaagagaaac ccctccagaa ctcccaccct gacagcccaa 180
caccaccttc ctccctggctt ccagggggca gccagtgga atggaaagaa tgtgggattt 240
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<210> 388

<211> 1446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 388

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aagaactaaa acgactcact atagggaaaa actananacg cctgacagga aaccgggccg 60
gaattcccg gtcgaccac gcgtccgaar argagggtgga ggargagggt gatgttgata 120
gtgatgaaga agaggaggaa gatgaggaga gctcctcgga gggcttgagg gctgaggact 180
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cccagtcccc tactctgcat ttcttggaag gtggggagga ctctgattca gacagtgaag 300
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gacatcaaaag ctgagtcact ggacctagct gtgccccaa cctagattgg cagcaccacc 600
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tttcccagtt tgatttcaat aaatctgtcc actcccttt tgtgggggtg aacgttttaa 1380
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aaaaaa

1446

<210> 389

<211> 723

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (705)

<223> n equals a,t,g,. or c

<400> 389

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ataaaaactg acttgtaatc caggctatgt ctcttttttag cttcgtaatc tttggcaagg 180
ccattggatt cttcagctgt acaattagga gactcgatca ggtgattgcc tttctcagct 240
gtcagttctc taatttcagg cttggtagct tgtaggaact gaaattgcaa ttaaaacctt 300
tataaactca aactaaatca tgaattacag aaaaagtcca ttcttccaaa acttgatgtt 360
accacactta caagtttaaa atatgaagtc gactgtttaa aggattctgc atatattcta 420
gtgtgcacat tcagaaacat ttttcttgga aaaagtaccc aacatttttt ataactgcac 480
atattaatftt attgccagaa taaattgcat tgcattgctaa ataaagtcag ataattcaaa 540
tccatttgct tttatgtagt ttttcttcta aatgtcaaca ttttggaatt aaaatgttta 600
tggttttata tgagggtagg aaatcttaac tgctttgggg ggtattgttt ataggctttt 660
tgttatgggg ccggtagttt ttaaataggg ggattgccca tttcnaccgt ttgggggccc 720
ggg 723
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<210> 390

<211> 1046

<212> DNA

<213> Homo sapiens

<400> 390

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ccgacctgct ggtgccactc tggaaagggc caagactctc tccccagggg agaatggggg 180
cgtcaaagac gtttttgctt ttgggggtgc cgtggagaac cccgagtact tgacacccca 240
gggaggagct gcccctcagc cccaccctcc tcctgccttc agcccagcct tcgacaacct 300
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acctacggca gagaacccag agtacctggg tctggacgtg ccagtgtgaa ccagaaggcc 420
aagtccgcag aagccctgat gtgtcctcag ggagcaggga aggcctgact tctgctggca 480
tcaagaggtg ggagggccct ccgaccactt ccaggggaac ctgccatgcc aggaacctgt 540
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gcgaccattt cagagactgt ccctgaaacc tagtactgcc ccccatgagg aaggaaacgc 840
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gcaagtgtgg ggggtccttc tccacaccca ctttgtccat ttgcaaatat attttgaaaa 1020
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<210> 391
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 391
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 tcttcgcctt agtactcgtg tgaagttggc ggggacggtt cctgtcatct tcttgggctt 120
 atttggtgtg ctggtgaagg ggggagacta gagaaatggc agggaacctc ttatccgggg 180
 caggtaggcg cctgtgggac tgggtgcctc tggcgtgcag aagcttctct cttggtgtgc 240
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 aacgttgtat ccgaaagagg aaaatggttg gaagtagaat gttcgctgat gacctgcaca 480
 accttaataa acgcatccgc tatctctaca aacactttaa ccgacatggg aagtttcgat 540
 agaagagaaa gctgagaact tcggaaaagg ctcatctgtc accctggaga agggaaactg 600
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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagtcgacc 699

<210> 392
 <211> 1545
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (25)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (54)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<400> 392
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 tggcaccggt tgccctcaagt acctgctgtt tacctacaat tgctgcttct ggctggctgg 180
 cctggctgtc atggcagtg gcatctggac gctggccctc aagagtgact acatcagcct 240
 gctggcctca ggcacctacc tggccacagc ctacatcctg gtggtggcgg gcactgtcgt 300

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caagcgctac caccagccgg gccatgaggc tgtgaccagc gctgtggacc agctgcagca 540
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catgtgcctc tgcggggcag ggcttccctg gttttgtaca ctgctgtacc cagatgccta 1440
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1545
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<210> 393

<211> 749

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (748)

<223> n equals a,t,g, or c

<400> 393

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tgaaccggyc caggctcgga acggagcagt ttctcttgag cggagattca ggtttttcag 180
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cgcaaaaggg ccctcgtag caaggctccg ccgccacgag actttcacat caatctcttc 300
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gactgcctcg ctgccccacc tcccgtcctt tggcctgtcc ccagattcct tccctgggtg 600
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aaaaaaaaaa aaaaaaaaaa aaaaaaana 749
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<210> 394
 <211> 611
 <212> DNA
 <213> Homo sapiens

<400> 394
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 agccggaaga gcgtttccca aagtgtattc tgcggaacta gcacctactg tgttctcaac 180
 accgtgccac ctatagaaga tgatcatggg aacagcaata gtagtcatgt aaaaatcttt 240
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 aatttaattt cattttttta ttttggtgta caagctgtaa catttcatct ttcaaagtgt 480
 aacacgctga tttcctcaaa tagagatacc ctttgagtg ataaatttgc aaaatgctgt 540
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 tcctttttaa a
 611

<210> 395
 <211> 1856
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1851)
 <223> n equals a,t,g, or c

<400> 395
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 acccggccga cgggacctt aaagtctctg ttctgtcggg gcagcccgcc tccgccgccg 120
 gagccccggc cggccaggcc ctgccgtca tgggtgccag ccagagaggg gccagccccg 180
 aggagcgag cggggggctg ccccaggcgc gcaagcgaca gcgcctcacg cacctgagcc 240
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 agaaccagga gttaagacag cgcttgggga tggatgccct ggttgctgaa gaggaggcgg 480
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 gtgaaggaag aacctgtaga agatgacctc gttccggagc tgggtatctc aaatctgctt 1020
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tgagacatat tactggaagt aagaaatatt actataattg agaactacag cttttaagat 1440
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gtagcttctg aaaggtgctt tctccattta tttaaaacta cccatgcaat taaaagggtac 1800
aatgcaaaaa aaaaaaaaaa aaaaaaaacc ggggggsgcc ccggaaccaa ntcccc 1856

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<210> 396

<211> 2651

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2642)

<223> n equals a,t,g, or c

<400> 396

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gagccgaaga tggcagtgaa cgtatactca acgtcagtgga ccagtataaa cctaagtcga 180
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gcagctcccc agaggcccat ctcaacacag agaaccgctg cggctcctaa ggctggccct 660
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<211> 2507

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<213> Homo sapiens

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<222> (2496)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (2504)

<223> n equals a,t,g, or c

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<222> (2505)

<223> n equals a,t,g, or c

<400> 397

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<211> 1273

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 400

<211> 1522

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (1471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1487)

<223> n equals a,t,g, or c

<220>

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<222> (1501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

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<211> 1370

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1223)

<223> n equals a,t,g, or c

<400> 401

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1370

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<220>

<221> misc feature

<222> (1406)

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gtttaataga atataaacct cttgataaaa aatgcacaaa aaatcacttt gtatatgtga 1260
gtttcactgc attgtatatt ttttcatttg gtacacaaa aatgtattct tcataggttt 1320
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<210> 403

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<400> 403

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agcgaaaaaa acaagaacaa cttactcctg gagtagtcta tgtgcgccac ctacctaacc 240
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aacttttttc tacaatgtat ttgtttgcga gtaggacttg ggagtcattg ggaaaaaaaa 1680
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aaaaataaaaa 1750

<210> 404
<211> 1339
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1330)
<223> n equals a,t,g, or c

<400> 404
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gagagtgaiaa ttatgtgata cactgaaatn acttttggtt ttcttctaac tcatacaaaa 180
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cgtgtcctgc gtgtcttca cctctgggg cgccctgct gcggctggca ggtgcagaca 360
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aagcacgcct ttaaataagc aaaaacttta aaaggcagga aagagaattc ttaggcaaat 600
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tgtgtctgtg tgccctcctg ggagtcagtc agcgtcagg ccaggactgt gcagggccag 780
ccagcccatg cgctagtcag gagcacaggc aaggggtgct tgtggcagt gccgggcacc 840
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tcacgggtac tctttctgca ttccctcgt gctgtgtccc gctcgggttc caatggacag 1260
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gattgttaan ctgcctctt 1339

<210> 405
<211> 482
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 405

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cacctaccca caaactagtg gatgataaat tttggctatt cagaagacgt ttattatagg 180
agtatgtaga ttttccatag agtgctgtta tgtgacttga attttagtct cggccctgcc 240
tctgacattg tcggtgggtt atcctgggtc caggaaataa gactagcctt ttcctcatga 300
tagtctttgg tgggtttttaa aacagttggt taagtcaaca gatgtatcat atgcctgaca 360
ctgctctaca ccagtgaata atttacctc taataggggg tggttaactat aaagatgata 420
aacatagcat cttaattggn gtgtgtatga aggtggttgt tacctcttnc tagccacca 480
gg 482
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<210> 406

<211> 1413

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 406

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ttatttctgt tcggggccca tctatcctgg acacggcatg atgttcgtcc gcaacgattg 180
caaggtgttc agattttgca aatctaaatg tcataaaaac tttaaaaaga agcgcaatcc 240
tcgcaaagtt aggtggacca aagcattccg gaaagcagct ggtaaagagc ttacagtgg 300
taattcattt gaatttgaaa aacgtagaaa tgaacctatc aaataccagc gagagctatg 360
gaataaaaact attgatgcga tgaagagagt tgaagaaatc aaacagaagc gccaaagctaa 420
atattataatg aacagattga agaaaaataa agagctacag aaagttcagg atatcaaaga 480
agtcaagcaa aacatccatc ttatccgagc ccctcttgca ggcaaaggga aacagttgga 540
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tattcccttt gttaatgtta tagaaggggg gatacaaaaa ggaactaaca atttgtatgg 1020
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cagtgtcaga tatttttatt ttagtatttc ctgttttggt ttatttgcat cttagaagag 1080
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1413

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<210> 407

<211> 1693

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1548)

<223> n equals a,t,g, or c

<400> 407

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tcgagacagt tct
1693

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<210> 408

<211> 1342

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1332)
<223> n equals a,t,g, or c

<400> 408
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aaaaaaaaaa anaaaaaac ca 1342

<210> 409
<211> 2417
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (107)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (680)

<223> n equals a,t,g, or c

<400> 409

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<210> 410

<211> 1401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1394)

<223> n equals a,t,g, or c

<400> 410

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tgatcccaaaa atgcaaactg acaaaccctt tgaccagacc acaattagtc tgcagatggg 180
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aagagcatgt acaaaagtgg cctgtggaca tttaggcctg ggtgatgcat ttgctcttcc 1200
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catttctcag cataaactta tccattgta tttttataa ataaatattt tttttgaact 1320
ttmaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa gggnggccgt t 1401
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<210> 411

<211> 3016

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 411

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agatccaggg acagagtctc agcctcgccg ctgctgccgc cgccgccgcc cagagactgc 180
tgagcccgtc cgtccgccgc caccacccac tccggacaca gaacatccag tcatggataa 240
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tctctcagtt gcttataaaa atgtgttagg agcccgtag tcatcttgga gggctgctc 420
aagtattgaa caaaagacgg aaggtgctga gaaaaaacag cagatggctc gagaatacag 480
agagaaaatt gagacggagc taagagatat ctgcaatgat gtactgtctc ttttgaaaaa 540
gttcttgatc cccaatgctt cacaagcaga gagcaaagtc ttctatttga aaatgaaagg 600
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agattactac cgttacttgg ctgagggtgc cgctgggtgat gacaagaaaag ggattgtcga 660
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3016

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<210> 412
<211> 958
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc feature
<222> (930)
<223> n equals a,t,g, or c

```

<220>
<221> misc feature
<222> (934)
<223> n equals a,t,g, or c

<400> 412
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aaccaggaaa aactcgccaa actgcaggca caagtgcgca ttggtgggaa aggaactgct 180
cgcagaaaaga agaagggtgt tcatagaaca gccacagcag atgacaaaaa acttcagttc 240
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gctaattaag ccgaagaagc ctgggaatca agtttgaaac aaagattaat aaagttcttt 840
gcctagtata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggnggccgt tttaaaggaa ccagggtt 958

<210> 413
<211> 500
<212> DNA
<213> Homo sapiens

<400> 413
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atgcaaagag gttggatcaa gtttaaatga ctgtgctgcc cctttcacat caaagaacta 180
ctgacaacga aggccgcgcc tgcctttccc atctgtctat ctatctggct gccaggggag 240
gaaagaactt gcatgttggt gaaggaagaa gtgggggtgga agaagtgggg tgggacgaca 300
gtgaaatcta gagtaaaacc aagctggccc aaggtgtcct gcaggctgta atgcagttta 360
atcagagtgc cttttttttt tttgttcaaa tgattttaat tattggaatg cacaattttt 420
ttaatatgca aataaaaagt ttaaaaactt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
gcggccgctc gaattaagcc 500

<210> 414
<211> 3397
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (3081)
 <223> n equals a,t,g, or c

<400> 414
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 gctgaagcgg gacccgagc ccgagcagcc gccgccatgg caatcaaatt tctggaagtc 180
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 3397
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<210> 415

<211> 2880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<400> 415

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<210> 416

<211> 1616

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1610)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1611)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1616)

<223> n equals a,t,g, or c

<400> 416

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<210> 417

<211> 1815

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1184)

<223> n equals a,t,g, or c

<400> 417

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<210> 418

<211> 1966

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<400> 418

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<210> 419

<211> 2852

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2838)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2843)

<223> n equals a,t,g, or c

<400> 419

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<210> 420

<211> 2705

<212> DNA

<213> Homo sapiens

<400> 420

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<210> 421

<211> 1901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1828)

<223> n equals a,t,g, or c

<400> 421
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<210> 422

<211> 2477

<212> DNA

<213> Homo sapiens

<400> 422

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<210> 423

<211> 777

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (764)

<223> n equals a,t,g, or c

<400> 423

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caactatggc agcagcgtgg cctccgccac cgtgcacatc cgaatggcct ttctgagaaa 180

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aatggagttg gtcttagccg ctgcaggagc cttcttttct tgggggattc atcatctatg 660
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<210> 424

<211> 1649

<212> DNA

<213> Homo sapiens

<400> 424

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<210> 425

<211> 1608

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (1600)
<223> n equals a,t,g, or c

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<210> 426
<211> 1794
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1789)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (1790)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1793)

<223> n equals a,t,g, or c

<400> 426

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<210> 427

<211> 770

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

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<220>

<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<400> 427
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taaaaaatag aaattatctc actacttaaa tcccattdtt ttcacttcat atgaaagaac 180
atattgatag tatattctat attatttcat agatctgtct gaaagagatt gggaacaaaa 240
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<210> 428
<211> 512
<212> DNA
<213> Homo sapiens

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<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (484)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (491)
 <223> n equals a,t,g, or c

 <400> 428
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 ccatgaagg ggtcagtcct acaagattgg tgacacctgg aggagaccac atgagactgg 240
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 catagctgag aagtgttttg atcatgctgc tgggacttcc tatgtggctg gagaaacgtg 360
 ggagaagccc taccaaggct ggatgatggg agattgtact tgcctgggag aargcagcgg 420
 acgcatact tgcacttcta gaaatagatg caacgwtcag gacacaagga catctataga 480
 attngagaca ncttgagcaa gaaggataat cg 512

 <210> 429
 <211> 1470
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc feature
 <222> (1346)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (1347)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (1357)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (1387)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature
 <222> (1415)
 <223> n equals a,t,g, or c

 <220>
 <221> misc feature

<222> (1454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1462)

<223> n equals a,t,g, or c

<400> 429

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<210> 430

<211> 434

<212> DNA

<213> Homo sapiens

<400> 430

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gaatccccag cccggaagct ctcccagtc ttcgcccttc ctgttacggg aggcactggt 180
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<210> 431

<211> 1823
 <212> DNA
 <213> Homo sapiens

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 <222> (1804)
 <223> n equals a,t,g, or c

<220>
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 <222> (1805)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1815)
 <223> n equals a,t,g, or c

<400> 431
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<210> 432
<211> 3391
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

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<222> (114)
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<222> (3293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3391)
<223> n equals a,t,g, or c

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<210> 433

<211> 2553

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2516)

<223> n equals a,t,g, or c

<400> 433

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<211> 2532

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<400> 434

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<210> 435

<211> 1822

<212> DNA

<213> Homo sapiens

<400> 435

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<210> 436

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 436

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<210> 437

<211> 1632

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1616)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1617)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1628)

<223> n equals a,t,g, or c

<400> 437

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<210> 438

<211> 1016

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (993)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (994)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (995)
<223> n equals a,t,g, or c

<400> 438
actcgtgccg aattcggcac gagcggncac gagcaagccc catctcatcc tggcacgccc 60
tactccactg ccctggcagc agcaggtgtg gccaatggag gggggtgctg gccccagga 120
ttccccagc caaactgtct ttgtcaccac gtggggctca cttttcatcc tccccaaact 180
tccctagtcc ccgtactagg ttggacagcc cccttcggct acaggaaggc aggaggggtg 240
agtccccctac tccctcttca ctgtggccac agcccccttg ccctccgcct gggatctgag 300
tacatattgt ggtgatggag atgcagtcac ttattgtcca ggtgaggccc aagagccctg 360
tggccgccac ctgaggtggg ctggggctgc tcccctaacc ctactttgct tccgccactc 420
agccatttcc cctcctcag atggggcacc aataacaagg agctcaccct gcccgctccc 480
aaccgccctc ctgctcctcc ctgcccccca aggttctggt tccatttttc ctctgttcac 540
aaactacctc tggacagttg tgttgtttt tgttcaatgt tccattcttc gacatccgtc 600
attgctgctg ctaccagcgc caaatgttca tcctcattgc ctctgttct gccacgac 660
ccctccccca agatactctt tgtggggaag aggggctggg gcatggcagg ctgggtgacc 720
gactaccccc gtcccaggga aggtggggcc ctgcccctag gatgctgcag cagagtgagc 780
aagggggccc gaatcgacca taaagggtgt agggggccacc tcctccccct gttctgttgg 840
ggaggggtag ccatgatttg tcccagcctg gggctccctc tctggtttcc tatttgcagt 900
tacttgaata aaaaaaatat ccttttctgg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aannnggggg gggccccccc ccccca 1016

<210> 439
<211> 594
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (531)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

<400> 439

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ttgaaaaacg ggtcgactgg cmcgwccsgc ccggagccag cggttctcca agcaccacagc 60
atcctgctag acgcgccgcy caccgacgga ggggacatgg gcagagcaat ggtggccagg 120
ctcgggctgg ggctgctgct gctggcactg ctccctacca cgcagattta ttccagtga 180
acaacaactg gaacttcaag taactcctcc cagagtactt ccaactctgg gttggcccca 240
aatccaacta atgccaccac caaggyggct ggtggtgccc tgcagtcaac agccagtctc 300
tctgtggtct cactctctct tctgcatctc tactcttaag agactcaggc caagaaacgt 360
cttctaaatt tccccatctt ctaaacccaa tccaaatggc gtctggaagt ccaatgtggc 420
aaggaaaaac aggtcttcat cgaatctact aattccacac cttttaaaaa tttttnggga 480
acccaaccca aagggtaaaa aaaaaaaaaa atttggggnt ttttttggn naaaggggna 540
aaaaaaattt ttcccccccc ccccaaaaaa aaaaaaaaat tttttttttt tttt 594
```

<210> 440

<211> 1580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (873)

<223> n equals a,t,g, or c

<400> 440

```
gccacgcgt tcgcaaggct gcccctctg gcgctgatta tcctgctgct gccgccaccg 60
ctgctgctgc tctgcaaaat tcagctgctg cctctgtctt gaggacccca gcgcctttcc 120
cccggggcca tgctgcctgc agccacagcc tccctcctgg ggccctcct cactgcctgc 180
gccctgctgc cttttgcccc gggccagacc cccaactaca ccagaccctg gttcctgtgc 240
ggaggggatg tgaaggggga atcagggttac gtggcaagtg aggggttccc caacctctac 300
ccccctaata aggagtgcac ctggaccata acggtccccg agggccagac tgtgtccctc 360
tcattccgag tcttcgacct ggagctgcac cccgcctgcc gctacgatgc tctggaggtc 420
ttcgtgggt ctgggacttc cggccagcgg ctcggacgct tttgtgggac cttccggcct 480
gcgcccctag tcgcccccg caaccagggt accctgagga tgacgacgga tgagggcaca 540
ggaggacgag gcttcctgct ctggtacagc gggcgggcca cctcgggcac tgagcaccaa 600
ttttgcgggg ggcggtgga gaaggcccag ggaaccctga ccacgcccga ctggcccag 660
tccgattacc ccccgggcat cagctgttcc tggcacatca tcgcgcccc ggaccaggtc 720
atcgcgctga ccttcgagaa gtttgacctg gagccggaca cctactgccg ctatgactcg 780
gtcagcgtgt tcaacggagc cgtgagcgac gactcccggg ggtggggaa gttctgcggc 840
gacgcaktcc cgggctccat ctccctcgaa ggnaatgaac tcctcgtcca gttcgtctca 900
gatctcagtg tcaccgctga tggtttctca gcctcctaca agaccctgcc gcggggcact 960
gccaagaagc ggcaagggcc cggcccaaaa cggggaactg agcctaaagt caagctgccc 1020
cccaagtccc aacctccgga gaaaacagag gaatctcctt cagccctga tgcaccacc 1080
tgccaaagc agtgccgccc gacaggcacc ttgcagagca acttctgtgc cagcagcctt 1140
gtggtgactg cgacagtga gtccatggtt cgggagccag gggagggcct tgccgtgact 1200
gtcagtctta ttggtgctta taaaactgga ggactggacc tgccttctcc acccactgg 1260
gcctccctga agttttacgt gccttgcaag cagtgcctcc ccatgaagaa aggagtca 1320
tatctgctga tgggccaggt agaagagaac agaggccccg tccttcctcc agagagcttt 1380
gtggttctcc accggcccaa ccaggaccag atcctcacca acctaagcaa gaggaagtgc 1440
```

```

ccctctcaac ctgtgcgggc tgctgcgtcc caggactgag acgcaggcca gccccggccc 1500
ctagccctca ggccttcttt cttatccaaa taaatgtttc ttaatgagga atgggtcaga 1560
tctccatgct tatggtaaaa

```

1580

```

<210> 441
<211> 1082
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1074)
<223> n equals a,t,g, or c

```

```

<400> 441
ctgccgagcg cctcttgagg ctgggctttc ccccgcggtg cggcgccagg agccgccttt 60
tccgctgggt gtcactcggg ggtggggaag atggccatt caaaagcgcc gcgagggggc 120
ccggccagtg cccttnagtg agcgtcgcga agaggacggc agaggcccgg cagctcggag 180
ctccgggacc ttgtggcgca tcaggacgag gctgtccctc tgccgggacc cagagccgcc 240
gccgcccgtc tgccctcctgc gtgttagcct cctctgcgag ctccgggcag gcggccgtgg 300
gagccgctgg ggcgaggacg gcgcgaggct gctgtgctg cccccggccc gcgcggctgg 360
aaacggagag gccgagccaa gcggcgggccc ctcttatgct gggaggatgc tggagagtag 420
cggctgcaaa gcgctgaagg agggcggtgt ggagaagcgc anacnggggt gttgcagctc 480
tggaagaaaa agtgttgcac cctcaccgag gaagggtgc tgcttatccc gcccaagcag 540
ctgcaacacc agcagcagca gcaacagcag cagcagcagc agcaacaaca gcccgggcag 600
gggcccggcc agccgtccca acccagtggc cccgctgtcg ccagcctcga gccgcccgtc 660
aagctcaagg aactgcactt ctccaacatg aagaccgtgg actgtgtgga gcgcaagggc 720
aagtacatgt acttcaactgt ggtgatggca gagggcaagg agatcgactt tcgggtgccg 780
caagaccagg gctggaacgc cgagatcacg ctgcagatgg tgcagtacaa gaatcgtcag 840
gccatcctgg cgtgcaaatc cagcggcgag aagcagcagc acctggtcca gcagcagccc 900
ccctcgcagc cgcagccgca gccgcagctc cagccccaac cccagcctca gcctcagccg 960
caacccccag cccaatcaca accccagcct cagccccaac ccaagcctca gccccagcag 1020
ctccamccgt atycgcatyc amattcamat ycamaatctt atccttmatt tggnaaccaa 1080
aa

```

1082

<210> 442

<211> 1241

<212> DNA

<213> Homo sapiens

<400> 442

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agacgagcgt ggcggccgcg gctgctcggg gccgcgctgg ttgcccattg acagcggcgt 60
ctgcagctcg cttcaagatg gccgcttgct cgcattcatt ttctgctgaa cgacttttaa 120
ctttcattgt cttttccgcc cgcttcgacg ccctcgsgcc ggctgctcct tccgggattt 180
tttatcaagc agaaatgcat cgaacaacga gaatcaagat cagctgagcta aatccccacc 240
tgatgtgtgt gctttgtgga ggggtacttca ttgatgccac aaccataata gaatgtctac 300
attccttctg taaaacgtgt attgttcggt acctggagac cagcaagtat tgcctattt 360
gtgatgtcca agttcacaaag accagaccac tactgaatat aaggtcagat aaaactctcc 420
aagatattgt atacaaatta gttccaggcg ttttcaaaaa tgaaatgaag agaagaagg 480
atTTTTatgc agctcatcct tctgctgatg ctgccaatgg ctctaataga gatagaggag 540
agggttcaga tgaagataag agaattataa ctgatgatga gataataagc ttatccattg 600
aattctttga ccagaacaga ttggatcgga aagtaacaa agacaaagag aaatctaagg 660
aggaggtgaa tgataaaaga tacttacgat gccagcagc aatgactgtg atgcacttaa 720
gaaagtttct cagaagtaaa atggacatac ctaatacttt ccagattgat gtcattgatg 780
aggaggaacc tttaaaggat tattatacac taatggatat tgcctacatt tatacctgga 840
gaaggaatgg tccacttcca ttgaaataca gagttcgacc tacttgtaaa agaataga 900
tcagtcacca gagagatgga ctgacaaatg ctggagaact ggaaagtgac tctgggagtg 960
acaaggccaa cagcccagca ggaggtattc cctccacctc ttcttgtttg ctagcccca 1020
gtactccagt gcagtctcct catccacagt ttccctcacat ttccagtact atgaatggaa 1080
ccagcaacag ccccgagcgg aaccaccaat cttcttttgc caatagacct cgaaaatcat 1140
cagtaaatgg gtcattcagc acttcttctg gttgatacct gagactgtta aggaaaaaaa 1200
aaaaaaaaa accccggccg ctcccacttc agattggtaa c 1241
```

<210> 443

<211> 968

<212> DNA

<213> Homo sapiens

<400> 443

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cccacgcgtc cgcaggaagc caactatttg aaatgcacga gaaactaagt tgtatggcaa 60
actctgtaat aaaaaatcta cagtcacgtt ggagatcacc atcccatgaa aattctattt 120
agtattttca gagaaaattg aagggttttt taaacatcac tggatttctt gattgaggaa 180
acaagttctg aaataatagc acaatttcaa agaagagact ctttgcaaag ttgataacat 240
ttcaaaccct gaaggacagt gacttattat gtwagttcaa tkttgtaagt ycattatgtw 300
agatcctttt tttttttcat aatatgtatt cttggtgct atgctgtggt tttcaggaaa 360
tttaattatc ttactgagat gtgaaagcaa aactagtaac agaacttaca ttttatttca 420
tgctttctta aaccctgca tattctgggt aaacatgtaa aatactttta gtaaaattga 480
acatttttat ttgaattttt gctgaactga taaagggtgt tatatttttg tttgttkgtt 540
tgtttaattc atgtttgttg ggactgaggt ttaggaagtt tgttactggt taaaaacctc 600
aaatgaaatg cgaaagaatt tgaatttttc ctgcatatgt caactttgga cagctttcaa 660
gaaaaaatgag aaaagtttca acttctggcg gttaaaatat taatgcagaa tttactaata 720
ttttattcat ttgcattagc aaatatctac gcagcagcag ttgactgaaa atttattcct 780
atgagacgta tagtattcat ttttaaatgc atgattgtac attatgtata gacgacaatg 840
tttttaattt ataaatttca ttctttgtta attgcatggg tttttctgca gcttattgtg 900
aataccttgg ttctgttcaa tagaaacatt ttgtatatat traatactga aatatcaaaa 960
aaaaaaaaa 968
```


<210> 444
 <211> 1360
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (114)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (302)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (330)
 <223> n equals a,t,g, or c

<400> 444
 cgccggagcg tcattctgcga ctccaatgcc actgcaactgg agcttcccgg ccttcctctt 60
 tccctgcccc agcccagcat ccccgcggt gtcccgcaga gtgctccacc gganccccac 120
 cggaagaga ccgtgaccgc caccgccact tcccaggtag ccagcagcc tccagccgct 180
 gccgcccctg gggaacaggc cgtcgcgggc cctgcccctc gactgtcccc agcagtacca 240
 gcaaagaccg ccagtgctcc cagcctagcc ttgtggggag caaagaggag ccgccgcccg 300
 angaaagtgg cagcggcggc gcaagcgcmn aaggagccac aggaggaacg gagccagcag 360
 caggatgata tcgaagagct ggagaccaag gccgtgggaa tgtctaacga tggccgcttt 420
 ctcaagtttg acatcgaaat cggcagaggc tcctttaaga cgggtctaca aggtctggac 480
 actgaaacca ccgtggaagt cgccctggtg gaactgcagg atcgaaaatt aacaaagtct 540
 gagaggcaga gattttaaga agaagctgaa atgttaaaag gtcttcagca tcccaatatt 600
 gttagatttt atgattcctg ggaatccaca gtaaaaggaa agaagtgcag tgttttggtg 660
 actgaactta tgacgtctgg aacacttaaa acgtatctga aaaggtttaa agtgatgaag 720
 atcaaagtgc taagaagctg gtgccgtcag atccttaaag gtcttcagtt tcttcatact 780
 cgaactccac ctatcattca ccgcgatctt aaatgtgaca acatctttat caccggccct 840
 actggctcag tcaagrttgg agacctcgt ctggcaaccc tgaagcgggc ttcttttgcc 900
 aagagtgtga taggtacccc agagttcatg gccctgaga tgtatgagga gaaatatgat 960
 gaatccgttg acgtttatgc ttttgggatg tgcattgctg agatggctac atctgaatat 1020
 ccttactcgg agtgccaaaa tgctgcgcag atctaccgtc gcgtgaccag tggggtgaag 1080
 ccagccagtt ttgacaaaag agcaattcct gaagtgaagg aaattattga aggatgcata 1140
 cgacaaaaca aagatgaaaag atattccatc aaagacctt tgaaccatgc cttcttccaa 1200
 gaggaacag gagtacgggt agaattagca gaagaagatg atggagaaaa aatagccata 1260
 aaattatggc tacgtattga agatattaag aaattaaagg gaaaatacaa agataaaaaa 1320
 aaaaaaaaaa aaaaaaaaaa aaaaaacacc caccgtgccg 1360

<210> 445
 <211> 1835
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc feature
 <222> (326)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1229)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1738)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1747)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1758)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1801)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1806)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1831)
 <223> n equals a,t,g, or c

<400> 445
 tcgacccacg cgtccgggat gaggcccggc ctctcatttc tcctagccct tctgttcttc 60
 cttggccaag ctgcagggga tttgggggat gtgggacctc caattcccag ccccggtctc 120
 agctctttcc caggtgttga ctccagctcc agcttcagct ccagctccag gtcgggctcc 180
 agctccagcc gcagcttagg cagcggaggt tctgtgtccc agttgttttc caatttcacc 240
 ggtcccggtg atgaccgtgg gacctgccag tgctctgttt ccctgccaga caccamcttt 300
 cccgtggaca gagtggaaacg yttgnaatt cacagctcat gttctttctc agaagtgtga 360
 gaaagaactt tccaaagtga gggaatatgt ccaattaatt agtgtgtatg aaaagaaact 420
 gttaaacctt actgtccgaa ttgacatcat ggagaaggat accatttctt acaactgaact 480
 ggacttcgag ctgatcaagg tagaagtga ggagatggaa aaactgggtca tacagctgaa 540
 ggagmstttt ggtggaagct cagaaattgt tgaccagctg gaggtggaga taagaaatat 600
 gactctcttg gtagagaagc ttgagacact agacaaaaac aatgtccttg ccattcgccg 660

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agaaatcgtg gctctgaaga ccaagctgaa agagtgtgag gcctctaaag atcaaaacac 720
ccctgtcgtc caccctcctc ccactccagg gagctgtggg catggtgggt tgggtgwacat 780
cagcaaacgg tctgtggttc agctcaactg gagagggttt tcttatctat atggtgcttg 840
gggtagggat tactctcccc agcatccaaa caaaggactg tattgggtgg cgccattgaa 900
tacagatggg agactgttgg agtattatag actgtacaac acactggatg atttgctatt 960
gtatataaat gctcgagagt tgcggatcac ctatggccaa ggtagtggtg cagcagttta 1020
caacaacaac atgtacgtca acatgtacaa caccgggaat attgccagag ttaacctgac 1080
caccaacacg attgctgtga ctcaaactct ccctaagtct gcctataata accgcttttm 1140
atatgcta atgtgtgtggc aagatattga ctttsctgtg gatgagaatg gattgtgggt 1200
tattttattca actgaagcca gcaactggtna catggtgatt agtaaaactca atgacaccac 1260
acttcagggtg ctaaactctt ggtataacca gcagtataaa ccactctgctt ctaacgcctt 1320
catggtatgt ggggttctgt atgccacccg tactatgaac accagaacag aagagatttt 1380
ttactattat gacacaaaca cagggaaaga gggcaacta gacattgtaa tgcataagat 1440
gcaggaaaaa gtgcagagca ttaactataa cctttttgac cagaaacttt atgtctataa 1500
cgatggttac cttctgaatt atgatctttc tgtcttgagc aagccccagt aagctgttta 1560
ggagttaggg tgaagagaa aatgtttgtt gaaaaaatag tcttctccac ttacttagat 1620
atctgcaggg gtgtctaaaa gtgtgttcat tttgcagcaa tgtttargtg catagttcta 1680
ccacactaga gatctaggac atttgtcttg atttggtgag tctcttgggg atcatctngc 1740
ytttcangcg cmttttgnca taaagtcygt cyagggtggg attgtcagag gtctaggggc 1800
ncttgnnggc ctaatggaac ctttctgtga ngaag 1835
```

<210> 446

<211> 1355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<400> 446

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ggcacgagcg cgtcgacacg gaagtcgaag cggagatccc ggggtcgcgc gaganccgca 60
agcggagttg gtgggcgcta tgctatcacc cgaggcagag cgagtgtgc ggtaccttgt 120
agaagtggag gagctcgccg aggaggtgct ggcggaacaag cggcagattg tggacctgga 180
cactaaaagg aatcagaatc gagaggccct gagggccctg cagaaggatc tcagcctctc 240
tgaagatgtg atggtttgct tcgggaacat gtttatcaag atgcctcacc ctgagacaaa 300
ggaaatgatt gaaaaagatc aagatcatct ggataaagaa atagaaaaac tgcggaagca 360
acttaagtg aaggtaacc gcctttttga ggcccaaggc aaaccggagc tgaagggttt 420
taacttgaac cccctcaacc aggatgagct taaagctctc aaggatcatc tgaaggatg 480
agactcaaga accaagatgg gggaccagca acccccagg gtcattggagg acccaggacc 540
ctccaacctt gacacctgta aggacaggat ctgccctgta agggccagcc gtcaggaatc 600
tgccatgaa aacctctttg tagtgcttgg ctactctgtg atggcaggag ggaaccttca 660
gcctgtcttg ctgctggacc tggacaccag ggctcgggtg acacaagatc tattgacggg 720
ccttggtagc caccagtggg tgtgtggggc agtggctgtg ggggtgtaag aatgactgca 780
acaggcactt cccaacaatg gcctgctgtt cacatggacc ctgagcaagg aaggaggag 840
ggaggggagc agtggagtgt cattccagca ttctctcag aaggggagaga ggttttcagg 900
ctggtgccat gcgattggaa taaagcagga ggctcatggg tggttgctga atgaagaaca 960
gaatcttggg gctttgtggc tcaccacagc catctgtggg gcaggcacac acacctcccg 1020
ccagctccaa ttttgactt tttccctgct tgattccaag agtaggtgct gcctagcagc 1080
ccttcgtggc cactctttac tcaggagggc cttgcagagt cctgcaccag gcctgggtga 1140
```

```
gtggatgcgc ctcttaccat atgacacgtg tcaagatgcc cttccgcccc ctctgaaagt 1200
ggggcccggc cagcactgct cgttactgtc tgccttcagt ggtctgaggt cccagtatga 1260
actgccgtga agtcaaaact cttatgtgtt cattaagggc tcaataaatg ttagctgaat 1320
gaawaaaaaa aaaaaaaaaa amawaaaaaa aaaaaa 1355
```

<210> 447

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (313)

<223> n equals a,t,g, or c

<400> 447

```
tgcctctgtg tgtgtgcaag acagagagat aggctatttg tcaagtcagc tagttgccta 60
ggatatcttg tctcacatct ggctgtttcc tcttagagaa ccatccagtt ggctttccag 120
gtctggaggt gagctaattg atgagtgaat atnagcagtg ggtgttcctc atctctttga 180
ggatttgcct cagagttcac taccaaggga tttctggaac taggwgccat tctttacatc 240
agttcttgag ggttctttga tatcaggggc aaaatgatcc cttctctttt ctttcttata 300
tctgtgctt tgnctcctgg gtgatttctc ttcaagtcag ttgtgggagg tgcctaggaa 360
caacgctaac acggg 375
```

<210> 448

<211> 1393

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1383)

<223> n equals a,t,g, or c

<400> 448

```
tcttttacat gtttaaattt aaaccattct tcgtgacccc ttttcttggg agattcatgg 60
caagaacgag aagaatgatg gtgcttggtt ggggatgtcc tgtctctctg aactttgggg 120
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gaggaagctg agcagacccc tgtgatgcct gtgacctcaa ttaaagcaat tcctttgacc 1320
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1393

<210> 449

<211> 1663

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 449

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gtgggaattg ttcatagtgc caaagtcceta mtactgcgtt ttcaatgggt ccttgtacat 600
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ttataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1663
```

<210> 450

<211> 1380

<212> DNA

<213> Homo sapiens

<400> 450

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cttctagacg acaaaatgca aaaaaggagg ccaaagactt ttggaatgga tatgaaagca 180
tacctgagat ctatgatccc acatctggaa tctggaatga aatcttccaa gtccaaggat 240
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caaactggtc aaaatgtctt tggaggtttc ctaaagtctg aattcagtga ggagaatatt 360
gagttctggc tggcttggtga agactataag aaaacagagt ctgatctttt gccctgtaaa 420
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gaagcacaaa aagtcataata tactcttatg gaaaaggact cttatcccag gttcctcaaa 600
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cctgggtgaa cagcttggcc ttttttgggt gtcttgacag gccagaaga acaaatgact 780
cagaatggat taacatgaaa gttatccagg cgcagagttg aagaagcata agcaagacaa 840
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```

<210> 451

<211> 926

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (687)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<400> 451

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aaagaatgag actggtaata acaacaacaa agatggatct aatcataaag ctgaaagtgg 120
agctctaata gaagctgcaa aatcaaagat acatcagtac aaagtacgag cttatatcca 180
aatgaagtct ctgaaagcat gtaaaaaggga aatcaagtca gtcataaata cagctggaaa 240
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gcacaatttg ggaatattct actttaaaaa ggctctgcaa gagaatgaca atgtctgtgc 480
acagctcagt gcaggtagca ctgatccagg taaaaaattt tcaggaagac ccatgtgtac 540
gttactaacc aataagagat atgagttgct gtataactgt ggaattcagc ttcttcacat 600
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ggggcagttc tcggccattc ctgttagcca gtatgggagt tttgcagccc atatgttctc 900
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```

926

<210> 452

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1608)

<223> n equals a,t,g, or c

<400> 452

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aatatttcag tcaataagtt ttaacagaga gaaactccct tccagcgaag tggtgaaatt 420
tggccgaaat tccaacatct gtcattatac ttttcaggac aaacaggttt cccgagttca 480
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accaaattag aagtttgact tttatgtgtt atacacaatc ttaaaatttc acgaattcac 1560
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<210> 453

<211> 2254

<212> DNA

<213> Homo sapiens

<400> 453

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ccaggagcag aattttsctg accgcttcct ccctgaatga cgaggctgcc caagctctgg 180
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gagtttgatt ataaaaaaaa aaaaaaaaaa aaaa 2254
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<210> 454

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 454

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gcggcggcgg cagtgggtggc agcgggagac aaatggaaac ctccacaggg cacagactcc 180
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1931

<210> 455

<211> 771

<212> DNA

<213> Homo sapiens

<400> 455

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<210> 456

<211> 1169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<400> 456

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cttcgagaga aaaggggagg atgccactgg agtcattctc tccaatgcc aatcctctcc 180
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<211> 3249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<400> 457

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<210> 458

<211> 1916

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 458

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<210> 459

<211> 2773

<212> DNA

<213> Homo sapiens

<400> 459

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<210> 460

<211> 2031

<212> DNA

<213> Homo sapiens

<400> 460

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<210> 461

<211> 1839

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1839)

<223> n equals a,t,g, or c

<400> 461

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<211> 779

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (731)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

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 <222> (759)
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 <222> (762)
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 ctgggaatgg agggcagagc caggaagatc cccagaaaa gaaagctaca gaagaaactg 660
 gggctcctcc aggtggcag caacaataaa tagacacgca cggcarccam aaaaaaaaaa 720
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<210> 463
 <211> 1717
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 463
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 ttctcatggt actgctactt catggatgat agcttcattg ctttgggtag ggatttaagg 180
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 aaaacccttt gtgaaaaatg tggttatagc actatagctc tgatttttagg atggttaa 300
 gttatatcca ttgttggtt accttatcaa actgtgccat taatccttcc acagacatag 360
 gtaaggaaga gaacaaccag tggattcagg ggacaattat ctatctccaa ataataggct 420
 tttatttctt gcagctaact ttttcagtga ttctagcaga tgccatctag tacatccttg 480
 atcttggtts tttcgtgaga gatctcgcca tggcagcatc ttgttaagta agtgaattg 540

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cacatgcaca aaagacttaa ctagctttac atttagcagt cagttgggta gattaggttt 600
catagtaa at gaataggaat agaaagaata ggaagtgttt ttattttcca gtagtaattc 660
cgtggattcc atttgaccca gtttactatc agttcagttc aggtagattt ggttcaactt 720
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<210> 464

<211> 828

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (827)

<223> n equals a,t,g, or c

<400> 464

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ggcgggcgag gctgaccccc taggacgctt cacgtgtccc gtgtgcttag aggtgtacga 120
gaagccggta caggtgccct gcggacacgt cttttgtctt gcatgcctgc aggaatgtct 180
gaagccgaag aagcctgtct gtgggggtgtg tcgacgcgt ctggcacctg gcgtccgagc 240
cgtggagctc gagcggcaga tcgagagcac agagacttct tgccatggct gccgtaagaa 300
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catggaaggt gtgaaggcca ccattaagga tgcattctct cagccaagga atgttccaaa 420
ccgttacacc tttccttgtc cttactgtcc tgagaagaac tttgatcagg aaggacttgt 480
ggaacactgc aaattattcc atagcacgga taccaaactc gtgggttgtc cgatatgtgc 540

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ctcgatgccc tggggagacc ccaactaccg cagcgccaac ttcagagagc acatccagcg 600
ccggcaccgg ttttcttatg acacttttgt ggattatgat gttgatgaag aggacatgat 660
gaatcagggtg ttgcagcgct ccatcatcga ccagtgaaga gagtccgtgc ttgctatctg 720
tctcatgtta cagagcttcc attacatatt aaacgtgaaa tctatgaaaa aaaaaaagg 780
gggggggnccc gggtacccca atttcggccc tattaggtta agtcgtna          828

```

<210> 465

<211> 1173

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1171)

<223> n equals a,t,g, or c

<400> 465

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ggtcgttact ctctgaccta tatctacact gggctgtcca agcatgttga agacgtcccc 120
gcgtttcagg cccttgntca ctcaatgacc tccagttctt tagatacaac agtaaagaca 180
ggaagtctca gcccatggga ctctggagac aggtggaagg aatggaggat tggaagcagg 240
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agtattacaa cgacagtaac gggctctcacg tattgcaggg aaggtttggg tgtgagatcg 360
agaataacag aagcagcgga cattctggaa atattactat gatggaaagg actacattga 420
attcaacaaa gaaatcccag cctgggtccc cttcgaccca gcagcccaga taaccaagca 480
gaagtgggag gcagaaccag tctacgtgca gcgggccaag gcttacctgg aggaggagtg 540
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atttgagac cgaagactgg gatgcctgtc ttgagtagac ttggacccaa aaaatcatct 1080
caccttgagc ccacccccac cccattgtct aatctgtaga agctaataaa taatcatccc 1140

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tccttgcccta gcaaaaaaaaa aaaaangngg ngg

1173

<210> 466

<211> 521

<212> DNA

<213> Homo sapiens

<400> 466

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tgctggacat gtcctacgag cagctgatgc agctgtacag tgcgcgccag gcggcggctg 180
aaccggggcc tgcggcggaa gcagcactcc ctgctgaagc gcccgcgcaa ggccaagaag 240
gaggcggccg ccatggagaa gccggaagtg gtgaagacgc acctgcggga catgatcatc 300
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gagatcaagc ccgagatgat cggccactac ctgggcgagt tctccatcac ctacaagccc 420
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<210> 467

<211> 1428

<212> DNA

<213> Homo sapiens

<400> 467

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tgagcaccct tacctgaccc catcccccca atccccctgag cactgggcca gccctcacc 180
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tttacatttt gtatagaaac aaattcattt aaacaaactt attattatta ttttttacia 780
aatatatata tggagatgct ccctccccct gtgaaccccc cagtgcctcc gtgggctgag 840
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```

<210> 468

<211> 3463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1187)

<223> n equals a,t,g, or c

<400> 468

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ggagccatgg ccaccgctaa cggggccgtg gaaaacgggc agccggacag gaagccgccg 120
gccctgccgc gccccatccg caacctggag gtcaagtcca ccaagatatt tatcaacaat 180
gaatggcacg aatccaagag tgggaaaaag tttgctacat gtaacccttc aactcgggag 240
caaatatgtg aagtggaaga aggagataag cccgacgtgg acaaggctgt ggargctgca 300
caggttgccct tccagagggg ctgccatgg cgccggctgg atgccctgag tcgtgggagg 360
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gatgacaacg tgtgtgcttc accaggcatg agccattgg tgtctgtggg gccatcactc 600
catggaactt cccctgtctg atgctggtgt ggaagctggc acccgccctc tgctgtggga 660
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<210> 469

<211> 621

<212> DNA

<213> Homo sapiens

<400> 469

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ctgttgatcc aggggtctaa tcaggcctgt gtctgcctcc ttcttgaata gccagtgaa 180
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621

<210> 470

<211> 1833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (524)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1798)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1812)
<223> n equals a,t,g, or c

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<210> 471
<211> 3202
<212> DNA
<213> Homo sapiens

<220>
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 <222> (4)
 <223> n equals a,t,g, or c

<220>
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 <222> (3160)
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<220>
 <221> misc feature
 <222> (3180)
 <223> n equals a,t,g, or c

<400> 471
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<210> 472

<211> 941

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (927)

<223> n equals a,t,g, or c

<400> 472

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941

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<210> 473

<211> 1279

400

<212> DNA
<213> Homo sapiens

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<222> (1144)
<223> n equals a,t,g, or c.

<220>
<221> misc feature
<222> (1273)
<223> n equals a,t,g, or c

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<210> 474
<211> 3209
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<400> 474
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<211> 833
<212> DNA
<213> Homo sapiens

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<222> (9)
<223> n equals a,t,g, or c

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<222> (15)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

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<210> 476
<211> 1141
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 476

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1141

<210> 477

<211> 1102

<212> DNA

<213> Homo sapiens

<400> 477

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<210> 478

<211> 4201

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (4161)

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<220>

<221> misc feature

<222> (4186)

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<400> 478

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```

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c

```

4201

<210> 479

<211> 787

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<400> 479

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tggaggttgt agtaccgccc ccagagccaa ttttccactt ccgcktccgg cgctgcggca 180
gtccagatca aaaatggcgg tagttggtgt gtcctcggtt tctcggtcgc tgggtcggtc 240
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tgtgtacctg aagtcgcacc acggagagca cgagagaccg gagttcatcg cctaccccca 420
tctccgcatc aggaccaagc cgtttccctg gggagatggt aaccatactc tattccataa 480
ccctcatgtg aatccacttc caactggcta cgaagatgaa taaagagaat ctggaccact 540
acccgggcac cagggaccac agcactgggt tggaccgtta ctctgcacat ggaccagaaa 600
aagtatatgg gaccttaagc tcaccttctt tacttgatc aaatgatgac tgggtacttg 660
gtctcccatc cctttgcttg tggcaggaga tggcttaaat aaataactta aayttaaaaa 720
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactn 780
ggggccg                                           787
```

<210> 480

<211> 731

<212> DNA

<213> Homo sapiens

<400> 480

```
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ccccagcag cccctccacc cctgcatgtt cccgctggcc actgcctact ccacgctcca 180
gctggtcacc aacccctacc aggccaccat tgatggagtc agatttttgg ggacatcagg 240
acagaacgtg aatgacattt tccgatacag cagcatggag gatcacttgg agatcctgga 300
gtggaccctg cgggtccgtc acatcagccc cacagccct gacactctag gttgttacct 360
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cacccccagc tttggctcca aaatcatccg aggtcctgag gaccagacag tgcgttggt 480
gactgtccct gacttcagt ccacgcagac cgctgcctt gtgaacctgc gcagcctggc 540
ctgccagccc atcagcttct cgggcttcgg ggcagaggac gatgacctgg gaggccttgg 600
ctggggccct gactcaaaaa agtggttttg accagagagg cccagatgga ggctgttcat 660
tcctgcagtg gtcggcattg taaataaagc ctgagcactt gctgatgcga aaaaaaaaaa 720
aaaaaaaaaa a                                           731
```

<210> 481

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 481

```
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tccggcgccg agccggagg gggaaacgac gcccgccgcc cgccggagc ccgcgagcaa 120
ccccagtccc cccacccgc gcgtggcggc gccggtccc tagccaccgs gggccacccc 180
tcttcggcc tcagctgtcc gggtgctt cgctccgcc tgtggatgct gcgcctctcc 240
gaacgcaaca tgaagggtgt ccttgccgcc gccctcatcg cggggtcctt cttcttctctg 300
```



```

ctgctgccgg gaccttctgc ggccgatgag aagaagaagg ggcccaaagt caccgtcaag 360
gtgtattttt acctacgaat tggagatgaa gatgtaggcc gggatgatct tggctctctc 420
ggaaagactg ttccaaaaac agtggataat tttgtggcct tagctacagg agagaaagga 480
tttggttaca aaaacagcaa attccatcgt gtaatcaagg acttcatgat ccagggcgga 540
gacttcacca ggggagatgg cacaggagga aagagcatct acggtgagcg cttccccgat 600
gagaacttca aactgaagca ctacgggcct ggctgggtga gcatggccaa cgcaggcaaa 660
gacaccaacg gctcccagtt cttcatcacg acagtcaaga cagcctggct agatggcaag 720
catgtggtgt ttggcaaat tctagagggc atggagggtg tgcggaagggt ggagagcacc 780
aagacagaca gccgggataa acccctgaag gatgtgatca tcgcagactg cggcaagatc 840
gagggtggaga agccctttgc catcgccaag gagttaggca caggacatc tttctttgag 900
tgaccgtctg tgcaggccct gtagtccgcc acagggtctt gactgactg ggcgccggtg 960
ctggcatctg gtggagcgga cccactcccc tcacattcca caggcccatg gactcacttt 1020
tgtaacaaac tcctaccaac actgaccaat aaaaaaaaaa gtgggttttt ttttttttta 1080
ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 1119

```

<210> 482

<211> 2056

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 482

```

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gcggccgggc ccgcgacccc cgcacccagc tccgcagacc ggcggggcgc cgcgggctct 120
ggaggccacg ggcattgnatg cttcgggtcc tgggtggggg tgctctccct gccatgctac 180
tggctgcccc accacccatc aacaagctgg cactgttccc agataagagt gcctgggtgcg 240
aagcaagaac atcacccaga tcgtggggca cagcggtgtg gaggccaaagt ccatccagaa 300
caggcgctgc ctaggacagt gcttcagcta cagcgctccc aacaccttcc cacagtccac 360
agagtccctg gttcactgtg actcctgcat gccagcccag tccatgtggg agattgtgac 420
gctggagtgc ccggggccacg aggaggtgcc cagggtggac aagctgggtg agaagatcct 480
gcactgtagc tgccaggcct gcggcaagga gcctagtcac gaggggctga gcgtctatgt 540
gcagggcgag gacgggcccg gatcccagcc cggcaccac cctcaccccc atccccacc 600
ccatcctggc gggcagaccc ctgagcccga ggacccccct gggggccccc acacagagga 660
agagggggct gaggactgag gcccccccaa ctcttctctc cctctcatcc cctgtggaa 720
tgttggtct cactctctgg ggaagtcagg ggagaagctg aagccccct ttggcactgg 780
atggacttg cttcagactc ggacttgaat gctgcccgt tgccatggag atctgaagg 840
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aagggaagag tcttccaagg ccagaaggag ggggacaacc cccaagacc atccctgaag 1440
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```

```
ctaggccccc cagaaagctg tcagagccgg ccgccttctc cctctctcca gggatgctct 1560
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aaamaggggg gggccc                                     2056
```

<210> 483

<211> 887

<212> DNA

<213> Homo sapiens

<400> 483

```
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attaatttca agaaaaatat cttgagtttt aagaaataaa catctccaga aaaggagaaa 180
gtcgatttta taaaatgtcg caactctcca acatttgggg tagtgactcc ttttttgtaa 240
ggacatttga aactagcaag cagccattgt ttctaaagaa ttctggcttc acattgactc 300
atgtttcttt cactccattt tgaaatagct aaaaatcatt aaaactgtaa atattttgtt 360
gcttgggtaa gcatcttctg ggaactttgt atctatggta tataatcata gaattttata 420
ttttcatata aagctaattt ttttctagtt tcaactccgt catagtkttt tttccttttt 480
gtggtggata tgtgaattca actttctgtg tattgaagta gcaaaaacca tctttacatt 540
ccaaaagaat ccaacatgtg ttatttcttt gaggcagtga ttgtgaaagt tgggttttct 600
ttttaattcc attgaccatt tgtgcaatag gaattagaca taattagtca ctgaaaacat 660
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gggaggggtt ttgtaacctg aaatttttcc ctttttcttc tgtttaaaact atatcaaac 780
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tttttgatgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaa 887
```

<210> 484

<211> 1878

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1446)

<223> n equals a,t,g, or c

<400> 484

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actatgagcc cgaggccttc cctctctcca gagcgagag gctttgaagg ctacctctgg 120
gaagccgctc accgtcggaa gctgcgggag ctgaaactgc gccatcgtca ctgtcggcgg 180
ccatgacacc gctcgtgtcc cgctgaktc gtctgtgggc catcatgagg aagccacgag 240
cagccgtggg aagtggtcac aggaagcagg cagccagcca ggaaggagg cagaagcatg 300
ctaagaacaa cagtcaggcc aagccttctg cctgtgatgg cctggccagg cagccggaag 360
aggtggtatt gcaggcctct gtctcctcat accatctatt cagagacgta gctgaagtca 420
```

```

cagccttccg agggagcctg ctaagctggt acgaccaaga gaaacgggac ctaccatgga 480
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aggctcatgct gcagcagacc caggttgcca ctgtgatcaa ctactatacc ggatggatgc 600
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aaaaaaaaa aaaaaaaa

```

1878

<210> 485

<211> 1566

<212> DNA

<213> Homo sapiens

<400> 485

```

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tcctttcatg gttataacac attggcagac tttttgctgg ctctgggagc catgatttta 180
atcacattct gcaagggtgac aaatgtcata cattccacat tgtgtggtag ccatctcttt 240
agactcatgt gttttgggga aaggaagaag ttcttggtg agtactattt tgaactttcc 300
agaacctct caccacagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
ctaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
gatagataca gccttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
gggagaaatc tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
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```

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cattctgtaa tcaactgagc tagttccaat aaagttaagc aggttttaaat ccactttgtg 1500
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aaaatt 1566

<210> 486

<211> 3046

<212> DNA

<213> Homo sapiens

<400> 486

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ctatcaggcc agcgttttaa aactagaaaa agagatgaaa aagagagggt tgaccctact 180
cagtttcaag actgtattat tcaaggctta actgaaaccg gtactgattt ggaagcagta 240
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atgcgtacag atgtctgcgt gtttgagcc caagaagatc tagagaccat gcaagcattt 420
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<210> 487

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 487

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tccaataaaaa tgtacacccc tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
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```

<210> 488

<211> 827

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (826)

<223> n equals a,t,g, or c

<400> 488

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cccacagtgg tgatgacgtc catgggccag gccacctgga gtgaccccca caaggccaag 540
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gggggcttct gggcctgctg agctccctcc acacacctca agccccatgc cgtgtctatc 720
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaana                                827

```

<210> 489

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 489

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agcgcgtccc cgtagaccgg tcccagacac gtcttttcat tccagtccag ttcaggctgc 360
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tgtcttcttg gcgtggttta tatgtccggg atctggatca gattctgggg gctcagaaac 540
gtcgggttga ttgagctact gggggttagga gttccaacat ttatgtccag agcaacttcc 600

```

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ggccgc 1926

```

<210> 490

<211> 1461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<400> 490

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caagtgggat ggatcagctg tgaaaaactc tttggatgat tctgccaaaa aggtacttct 240
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aatctcctgt ttctttgcc tagtggtttt gatttgggat tatatgcacc cctttccaga 360
gtccaaaccc gttttggctt tgtgtgtcat atcctatttt gtgatgatgg ggattctgac 420
catttatacc tcatataagg agaagagcat ctttctcgtg gccacagga aagatcctac 480
aggaatggat cctgatgata tttggcagct gtcctccagt cttaaaagggt ttgatgacaa 540
atacaccttg aagctgacct tcatcagtgg gagaacaaag cagcagcggg aagccgagtt 600
cacaaagtcc attgctaagt tttttgacca cagtgggaca ctggtcatgg atgcatatga 660

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gcctgaaata tccaggctcc atgacagtct tgccatagaa agaaaaataa agtagccaat 720
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```

<210> 491

<211> 805

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<400> 491

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aagattgcta aaaaatacca ctgcaaagtg atggaaaagg gtggagaaca ggggagtagc 480
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ttatgattaa gtgatgtaat ataggaatta tgtaaaaggg aagaatgtct gatactgac 600
tattagagag gtacttttaga ggcttcttga ttggcataaa gttcctaagg ttatagattt 660
tcccccttt tggtgtgata gcaaagtgtt ttaatccacg gttgtgcctt attgttccat 720
taaaattgta tcttcgatcc atcaataaat acttgtgggt gaaacaaaaa aaaaaaaaaa 780
aaaaaaaaa aaaaaaaaaa aaaaaa 805
```

<210> 492

<211> 2269

<212> DNA

<213> Homo sapiens

<400> 492

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ccggcgccgg cgcgcacaca cttaggtgta gcagaagagg agggacgcca tcaagagagg 180
ctatgatgac cttcagacca tcgtcccccac ttgccagcag caggacttct ccattggctc 240
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ccaacaagag   gcccttgaat  ctctacgtgg  ccactgaact  gctgggcccg  ggagactgga  720
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<210> 493

<211> 4108

<212> DNA

<213> Homo sapiens

<400> 493

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aacctgaaaa   ggaaccggaa  ttgcagcagt  atgtgccaca  actgcaaac  aacaccatcc  180
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<210> 494

<211> 2209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 494

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gaccccatcc gggacccctt gagggatcct taccragaac ttgacattca ccggagagac 180
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<210> 495

<211> 1677

<212> DNA

<213> Homo sapiens

<400> 495

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<210> 496

<211> 1702

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1691)

<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1701)
<223> n equals a,t,g, or c

<400> 496
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cagaggctaa gacccatccc gtatctgctc tcctgaaata attctggagt catgcctgaa 180
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<210> 497
<211> 2376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2354)
<223> n equals a,t,g, or c

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<220>

<221> misc feature

<222> (2375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2376)

<223> n equals a,t,g, or c

<400> 497

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cccacaagca gacccggtg tatggcatca ccacggccct gtctcagtgt ccgcaagcca 180
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aaaaaaaaaa aaanaaaaaaa aaaaaaaaaa aaaann

2376

<210> 498

<211> 840

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 498

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<210> 499

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 499

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aaatcgctcc attccccagt ggattcggat gaaaactgga aataaaatca ggtacaactc 180
caaaaggaga cattggagaa gaaccaagct ggggtctataa ggaattgcac atgagatggc 240
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gctggattca gtaataaata tgtaaggcct ttcyttttta aaaaaaaaaa aaaaacyyrr 420
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422

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461

<210> 500

<211> 2782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2643)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2742)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2779)

<223> n equals a,t,g, or c

<400> 500

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tcaccaaccg ctccccctct gcctatgtct cctcctgggt acaagctggt tactggcgac 540
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ngncatttgt ttaaagtcag aggattatct aaaagccagt ttcccagtc atttgatat 2700
aattggtagt gngaatactt cttcaaggac tattacttgg gnggttgag aatttatnt 2760
ggaagaaggc aaatgcttng gg
2782

```

<210> 501

<211> 1249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<400> 501

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agtttttgat cctgttgaa cgccttgaga cgggtctgtg aggggaaagc cttccgcacc 180
cacacaggaa ttctgctgag gtccccctc cttccggcca atggcagaag tgggggaaaa 240
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tgagtattta tctttttatt ttttattttt ttttttgaaa gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420
cccgatctcc ctccccacct ccgaagtctc ctccgtggac cacagggtga tctttgtgcg 480
aacaacttgc atttcggaag ccaactgtccg tctttaaaca gaaagtcgaa ggagccacga 540
agcaagcggc cgtccggggc tccgyctgcc gtccccctcc atgttcctcc tcttccttcg 600
cttcagcctc ttctgttatg ttttgtcttg aattttattt agacttttcc agtgggtatt 660
tttctgtctt ccaacctcta ctgtaaaact tctgggtccg gaacgagccg aacacagcgc 720
gacgcaggga ctaggacggc ccggtgaccg cgcggattca ggaattgcggg gacgcagaaa 780
ggttaaggca cttttaaaaa ctatagcaag gctcctgttt atttattcta ctttctttcc 840
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tggaatattt tgccgtgtag aatttttttt agatatccat tgtaaatttg aaacaaagac 960
cgatctgtgt aaaaacaaat ttccatattt tttatataaa tataatatata atatgaagga 1020
ctaccctcct tttttttttt gtattttggc tgctagagtg cagcatttgt gacacgtatt 1080
tgaaatttga aatttccttc tgcactgtat aaaaggacca tttgaggatg ttttgccctt 1140
tgtgtatttt ttcttaaaaa aagaacaaaa ataaaaatgt ataacatttg tacatggcct 1200
ttaaatttgt atcaactaga aataaaattg catgagtatt ttaaaaaaa 1249
```

<210> 502

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1351)

<223> n equals a,t,g, or c

<400> 502

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ccgcaccct agccaggccc caggagcct ccgctgggcc cagacagcag cgtytggttt 60
tatccacttt tctyggataa tcaggaggtg cccagtsgt cacagtgtgg cattccgagt 120
tggggcgggt ggtcgggtca agatagcagc agcaggtgtc agggctcaag acaccacccc 180
```

```

ctccagcttc tggggcccag gagcctctcc ctgctacagg ggggtgggggt cctgctcagc 240
agggtaggtg gtggtttttag gtcttgtcac cctcactcag tggaaactgcc tctgggagct 300
ttggcgctctg tractaaagg gacgctggat tgctcaggtc agctgctcgg ggctcccagg 360
ctgggtgtgc cttagccaca ggcagggtg tcaataaccc ccttcctcac tggccaccac 420
ctgacatcag caccagtgc aggtcgtca gaggcgggg ctggtgaggg tttgtcctaa 480
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tccctgtcct gtcttcctcc cgagccatgg cctctgctag ctccaccttg aaggagcccc 660
ccacatcctc ccctacatcc cagagatgcc accactgtg tctccacaat gtgctcctgc 720
ccaccgggt tccgactgt ccgaccctg cacaccactc atgtcaccac ggcgtgcac 780
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cacaaagctt ttgataagta ctttcctgtg ggtcgctcag ggcctcatag catctcatc 1140
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gaggctggag ggcaggagg gatcactttg gagcccagg agattggagg gctggcagt 1260
gagccatgga tccggcgac actggcactt ccagcctggg ggtggacggg tggagacttt 1320
tgttctccaa aaaaaaaaa aaaaaancnt nggagggc 1358

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<210> 503

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<400> 503

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gccacgcgt ccgacggctg cgagaagacg acagaagggg ctttctttct ttccgcgccg 60
atagcgctca cgcaagcatg gttaacgtcc ctaaaacccg ccggactttc tgtaagaagt 120
gtggcaagca ccaaccccat aaagtgcac agtacaagaa gggcaaggat tctctgtacg 180
cccagggaag ggcgcgttat gacagggaag agagtggcta tgggtgggcaa actaagccga 240
ttttccggaa aaaggctaaa actacaaaga agattgtgct aaggcttgag tgcgttgagc 300
ccaactgcag atctaagaga atgctggcta ttaaaagatg caagcatttt gaactgggag 360
gagataagaa gagaaagggc caagtgatcc agttctaagt gtcacttttt attatgaaga 420
caataaaatc ttgagtttat gttcaaaaaa aaaaaanggg gggggcccg taccawtcg 480
cctatagggg gncgtttaa a

```

501

<210> 504

<211> 2011

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1941)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1961)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1974)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1976)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2002)
<223> n equals a,t,g, or c

<400> 504
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ataataataa taataataat aaataataat ggagagctcc ttgaagatag ggagcctgta 120
agaatcattg agggcttatt ttgtatacca actgctaaac tagatgcttc atacattgtt 180
gtcaatactc atgacagcct tgtaaagtag aaawtaattc ttccagttaa cackaaggct 240
gacatatgaa taccttgcca aatctggaaa gctgggaaga cagtaattga actcaagact 300
tcttgtcacc aagggcctgc acttgctactc tgccatgtgg scctttttta cctcctgtgg 360
attctcccta cctgggtactt ggcccttaggt gtacacacac ctggcacttt gcttgacaca 420
taataggtgg accacaaata tctactaaat gaatatattgc atataagtaat attttaaggt 480
actaaaagca gctcaaagta aatattaata tattaattcc attgctatct ggataaccac 540
tcaactttcc tgctgaaaat gccattttaa ttaaagaagg ttggatagag ctctctatat 600
gcatttttga caggcagggg tttcagggtca taaacattct gatgagttaa tataaaataa 660
gagaaactgt aaatttccac tactaaaaat cacaaaaata acagaaacaa aagaagagat 720
aagaatttgg ggaattgtgc tgaacaattt agtggttaaa aaaaacaact gtgcatgttt 780
agacttaaat aagcccccac ccaagtgtga ggggtccagt aatttttcaa aacatatgaa 840
agtgttaata catttygaca aaggaccatt aaaaaagtcc tgaattctga cttgagggag 900
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taactcacag gtctgtttct gacctcccaa cttgctttcc ttgtgttttt cctatgctaa 1320
tgatccacca taatcaaaat aattaacatt tatccagtcg ctactatgta ctattccctg 1380
tcctgtttta catttactca tttaaagtcc ataagaaaca ttaaatctca tctgccttct 1440

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gaagaagata caaccatgct ctcttttaca aagtaggaaa ctgggtcaca gaaaggtgaa 1500
gtctttaagg ctgaatcaca gtagctcatc ctagtaaata gaaaagccag gattcaactc 1560
caggggctgg gtgcagaact gctattcttc actgcttcac caatcagcag ctaccaagg 1620
cagaaaactt ttcatcctt ggctccttca ttctccctgt caccacagat cccctctaca 1680
tctagtcaga gaatagggtcc tgtcaattcc aacttctctt tatgggtcct ctacggcatg 1740
tgcccttaat tggcctaatt ctctaataca ccttccctct acatgctcac tccctcagat 1800
cattgcttta tcacgkrtta cctgggttgc tattacataa agagcaatct ttctaaaatg 1860
agggatctta tcaacttcaact tccacactaa aatgtttttc ctgggggaac cacacttcct 1920
tagcaatctg acccatcaga nctttccagg ctgtctcctg nctgggtccc taangntccc 1980
agccaacacc ggaattatca tngggcccaa a 2011

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<210> 505

<211> 1989

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1917)

<223> n equals a,t,g, or c

<400> 505

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ggtgaggggt cgcccggtgca cagcctgtcc cagccgtcct gtccctggctg ctgctctgctg 60
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agcagctgca gctctcgccg ctgaaggggc tcagcttggt cgacaaggag aacacgccgc 180
cggccctgag cgggaccgcg gtccctggcca gcaagaccgc gaggaggatc ttccaggagc 240
ccacggagcc gaaaactaaa gcagctgccc ccggcggtgga ggatgagccg ctgctgagag 300
aaaacccccg ccgctttgtc atcttcccca tcgagtacca tgatatctgg cagatgtata 360
agaaggcgaga ggcttccttt tggaccgccc agggagagat attttataac ccattgttctg 420
actgggaatc cctgaaaccc gaggagagat attttataac ccattgttctg 480
cagcaagcga tggcatagta aatgaaaact tggtaggagc atttagccaa gaagttcaga 540
ttacagaagc ccgctgtttc tatggcttcc aaattgccat ggaaaacata cattctgaaa 600
tgtatagtct tcttattgac acttacataa aagatcccaa agaaaggga tttctcttca 660
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agttaaaaga tgcagcctca ctgctcaaac gcagatttta atgtttactt aaatataaac 1620
ctggcacttt acaacaaaat aaacattgtt tgtactcaca aggcgataat agcttgattt 1680
atttggtttc tacacaaaat acattctcct gaccactaat gggagccaat tcacaattca 1740

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ctaagtgact aaagtaagtt aaacttgtgt agactaagca tgtaattttt aagtttttatt 1800
ttaatgaatt aaaatatattg ttaaccaact ttaaagtcag tcctgtgtat acctagatat 1860
tagtcagttg gtgccagata gaagacaggt tgtgttttta tcctgtggct tgtgtantgt 1920
cctgggattc tctgcccccy ctgagtarag tgttgtgggr taaaggaatc tytcaggggc 1980
agggggcctt                                     1989
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<210> 506

<211> 1085

<212> DNA

<213> Homo sapiens

<400> 506

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gggcggtggcg gcgctgtgcg cgtgcacaaa agagagctga ggggcggggg cgctgcggca 60
cagctggttt gagcaactga actggaaaca agatgcagga cccaacgca gacactgaat 120
ggaatgacat cttacgcaaa aagggtatct tccccccaa ggaaagtctg aaagaattgg 180
aagaggaggc agaagaggag cagcgcatcc tccagcagtc agtggtgaaa acatatgaag 240
atatgacttt ggaagagctg gaggatcatg aagacgagtt taatgaggag gatgaacgtg 300
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taaatacagca cctcagtgga cttgccagga agtttcctga tgtcaaattt atcaaagcca 540
tttcaacaac ctgcataccc aattatcctg ataggaatct gccacgata tttgtttacc 600
tggaaggaga tatcaaggct cagtttattg gtcctctggt gtttggcggc atgaacctga 660
caagagatga gttggaatgg aaactgtctg aatctggagc aattatgaca gacctggagg 720
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tgaagaggga cagcgattcc gagggtgact gaggctacag cttctatcac atgccgaact 840
ttcttgtgac aaattgtctg gattttttta aaaaggaaaa agcaagaatg aatccttgtg 900
gttttttagt ttgtataaat tatgtttcaa atctttacat tttggaaata atcattgctg 960
gagattctgt taaatatattt ggaactcttt tttttttaaa ttatagtatt tcctctaaaa 1020
aaaattaaaa ccagccattt gtatggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaa                                     1085
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<210> 507

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (570)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1485)
<223> n equals a,t,g, or c

<400> 507
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cctggcctcg cgggtgccatg ctgccccggc ggccggcgtg aaggatggcg acgcccgtgc 180
ctccgcccctc cccgcggcac ctgcggctgc tgcggctgct gctctccggc ctgcgtctcg 240
gcgcgcgcct gcgtggagcc gccgcgggcc accgggatgt agccgcctgt cccgggagcc 300
tggactgtgc cctgaagagg cgggcaaggt gtctccttgg tgcacatgcc tgtgggacct 360
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cggagcctgc caccctgggc ttctcgcan gggggcaggg gctggakctg ggctccccct 600
ccactccagg aacccccacg cccacgccc acacctccct gggctccccct gtgtcatccg 660
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tcgaccacgc cgcactgtcc gcgcccctgc cggccccag ctaccgcct gactgccat 1140
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cctggtcccc tgcacctctc ctgttyggt tagacccca aactggaggg ggcattgaga 1380
accgtagagc gcaggaacgg gtgggtaatt ctagagacaa aagccaatta aagtccattt 1440
cagacctgcy gaaaaaaaaa aaaaaaaaaa aaacnnnggg ggggn 1485

<210> 508
<211> 1930
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<400> 508
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ttatttgtaa aaagatgagg acacacatta artgawgtca gcatttttag aaacttttag 120
acaaaatttg ttagggcat tcatgaaaac tttaatacta aaagcacttt ccattatata 180
ctttttaaaag gtctagataa ttttgaacca atttattatt gtgtactgag gagaaataat 240
gtatagtaga ggacagcctt ggtttgtaaa gctcagttcc actagtctcat ggttttgtgc 300
aacttctgag cctcagtttt ctcttttgca aattaataat tacataacct tatagatttt 360
gaaattaatt taaatattag tatttgggtac atgaaggcct aatgttaagt ttcttttaatt 420

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gatccacaat aatccctttg atcacgttaa tctaaatcta gatgtctttg tctaattttt 480
tttgaatagc agttataaat gttaaaggact caaagtttaa gtaaaaagtg atactccacc 540
ttgtgtttca aagaatttag ttccacctct tcataccagt ttaacactta atatatattca 600
ttggatttta gacagggcaa aaggaagaac aggggcctct ggaggccctt ggttatttta 660
atcttggtt atttgtgata gtaatcacia atttttggct aatttttaac ctgaggtttt 720
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gccatacatg ttaattattc acattcttgc ttccttaaat taatatgttt gtgtgtatat 1860
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<210> 509

<211> 1134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1041)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1064)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<400> 509

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gaagcagaaa agcgagaccc ccaggaaactc gtggcctcct tttctgaaa agttcggaac 360
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caagacaaga tccagaagct ttatgaacga aagataaagg agggaaatgga tatgaactac 480
attatccaaa ggaagaaaga atttcggaac cctagcatct acgagaagct gatccagttc 540
tgtgccattg acgagcttg caccaactac ccaaaggata tgtttgatcc ccatggctgg 600
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<210> 510

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 510

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tcagccacaa tgatgtagcc tcttttcctt tccatccaca gggcacctgg cctgggtgga 180
gcccactcct cagcaccac ctcacttctt gcagtattct gcagaccca gccctgtgcc 240
tgtgtcctg gacagctgga gataaggagt gggccctgga agatgctcat tcaggccctg 300
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ctggcacttc gggcaataac tctgtggcac gtgggcatca cgtaagcagc acactaggag 1140
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1382

<210> 511

<211> 1741

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1696)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1710)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1715)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1717)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1720)

<223> n equals a,t,g, or c

<400> 511

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tgtacttgct cagctcaact gcatttcagt tgtattatag tccagttctt atcaacatta 180
aaacctatag caatcatttc aaatctattc tgcaaatgtg ataagaataa agttagaatt 240
aacaatttta ttttgtacaa cagtgggaatt ttctgtcatg gataatgtgc ttgagtccct 300
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ttaaaactat tcctgccacc atttcttctc cttggccact tcttccttgc gtctccctgc 660
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gacaaactag taggtttgtc aagtttaata taaagcactg atgtaacttg ctaggtaaac 780

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<210> 512
<211> 1530
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1488)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1508)
<223> n equals a,t,g, or c

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tgtggtggta atgcctaaaa agagacaagc actggtggag tttgaagatg tggtgggggc 420

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cgtgaacagt gtgcttctct ttaccatcct gaacccatt tattcgatca ccacggatgt 600
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<210> 513

<211> 2999

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2996)

<223> n equals a,t,g, or c

<400> 513

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caataacctgg aagaacagac atagagttgg aaatatatgg tatggaagggt attccagaaa 780
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<210> 514

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 514

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ggactttata tgttcaagtg caggaattgg aaagttggac ttgttttcta tgatccaaaa 180
cagccctata agaaggttgg aaaaggagga actatatagc agcctttgct attttctgct 240

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accattttctt ttcctctgaa gcggccatga cattcccttt ggcaactaac gtagaaactc 300
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ttacttttcc gtttcattct aaaggtagtt aagatgaaat ttatatgaaa gcatttttat 1980
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2048

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<210> 515

<211> 3300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<400> 515

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<210> 516

<211> 3425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 516

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3425

<210> 517

<211> 1358

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1346)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1356)

<223> n equals a,t,g, or c

<400> 517

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<210> 518

<211> 1368

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1347)

<223> n equals a,t,g, or c

<400> 518

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tctggaagat caagaagctc attaagagct tggaggcggc ccgcggcaat ggcaccagca 240
tgatatcatt gatcattcct cccaaagacc agatttcacg agtggcaaaa atgttagcgg 300
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<210> 519

<211> 933

<212> DNA

<213> Homo sapiens

<400> 519

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cattagagat ttcttctgga aaactggaaa caagataggg tttaaaccag caggaggcat 180
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<210> 520

<211> 1430

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>
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<222> (105)
<223> n equals a,t,g, or c

<220>
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<222> (1428)
<223> n equals a,t,g, or c

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<210> 521
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1166)
<223> n equals a,t,g, or c

<400> 521
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<210> 522

<211> 2162

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2139)

<223> n equals a,t,g, or c

<400> 522

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cgccacagc cgcccgacgg cgcccagaga gcgcgcgccc cgcagccccg cgcctagccc 120

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gccgggcatg gggcgcgcg gagccgctga agccccggcc tggccccgnc gcacccggcc 180
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<210> 523

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<400> 523

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cgtttttctg taaccagcag accttatcta tactcccaat tccaattcct tgtaaacata 120
ctttgtaaaag tcctgtaaga tcctgtctcc tttagcatga cgctgcaagg tcataaagta 180
gataaaacct aagttgcaat tccggttttc ctcaagatct aagacatgtt acaaatgggt 240
aattgccttt gtttctcgct ttggtaacat ctccccgcct caggtatttc ccgccttgaa 300
gagtttaaaa ggcaatccta taatctaact ctggctaccc attctggacc cctccatgc 360
tttggaagct ttgtactttc actctgctca ataaagcctr cagctttttc tcactctcag 420
tccatgtctc tttcactcac tngggtcagc ttccacacca tttctttggt gtggcttggc 480
aagaacctca ggtgttacat cttggcgagc cagacaggag actccagaaa aggatcaag 540
ccatcaagct acaaatratc ttacaaatgg aacctcaaat gagctcagct cacggcttct 600
accgaggacc cctggwtcaa cccgctggtc cctcaattac cctagaaaat tccccctctg 660
aggacaccaa actgcagggc ccttyttca cccctaacca gcaggaagta gccagaacgg 720
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799

<210> 524

<211> 1722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 524

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yacagatggg accatgaact ccggacacag cttcagccag accccctcgg cctccttcca 180
tggcgccgga ggtggctggg gccggcccag gagcttcccc agggctccca ccgtccatgg 240
cgggtgcgggg ggagcccgca tctccctgtc cttcaccacg cggagctgcc caccctctgg 300
agggctcttg ggttctggaa gaagcagccc cctactaggc ggaaatggga aggccaccat 360
gcagaatctc aacgaccgcc tggcctccta cctggagaag gttcgcgcc tggaggaggc 420
caacatgaag ctggaagcc gcaccttgaa atggcaccag cagagagatc ctggcagtaa 480
gaaagattat tcccagtatg aggaaaacat cacacacctg caggagcaga tagtgatgg 540
taagatgacc aatgctcaga ttattcttct cattgacaat gccaggatgg cagtggatga 600
yttcaacctc aagwtgaaa atgaacactc ctttaaaaaa gacttgaaa ttgaagtcsa 660
gggcctccga aggaccttag acaacctgac cattgtcaca acagacctag aacaggaggt 720
ggaaggaatg aggaagagc tcattctcat gaagaagcac catgagcagg aaatggagaa 780
gcacatgtgt ccaagtgact tcaatgtcaa tgtgaaggtg gatacaggtc ccagggaaga 840

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tctgattaag gtcctggagg atatgagaca agaatatgag cttataataa agaagaagca 900
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tccagccact gtgcagagca gacaagggtga catccacgaa ctgaagcgca cattccaggc 1020
cctggagatt gacctgcagr cacagtacag caggaatct gctttggaaa acatgttatc 1080
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ctttcctact gcagccttca gattctcatc attttgcac tattttgtag ccaataaaac 1680
tccgcactag caaaaaaaaa aaaaaaaaaa aaaaagttcg ac 1722
```

<210> 525

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (526)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 525

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ggggattagc tccggtttgc atcaccggga ccgggggatt agctccggtt tgcacaccc 120
ggaccggggg ccgggcgcgc acgagactcg cagcgggaagt ggaggcggct ccgcgcgcgt 180
ccgctgctag gacccgggca gggctggagc tgggctggga tcccagctc ggcagcagc 240
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cacgcggaac gacggggcga gatgcgagcc acccctctgg ctgctcctgc gggttccctg 360
tccaggaaga agcgggttga gttggatgac aacttagata ccgagcgtcc cgtccagaaa 420
cgagctcgaa gtgggccccca gccagactg cccccctgcc tggtgccccct gagccacact 480
actgctccag atcgtgcaac tgctgtggsc actgnctccc gtyttnggsc ctatgtccty 540
ctkgaagccc gaagaanggc gg 562
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<210> 526

<211> 2023

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<400> 526

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tggagaaatt atttcaaggt cagctggtat taaggacgcg ttgcttggaa tgtgaaagtt 180
taacagaaaag aagagaagat tttcaagaca tcagtgtgcc agtacaagaa gatgagcttt 240
ccaaagtaga ggagagttct gaaatttctc cagagccaaa aacagaaatg aagaccctga 300
gatgggcaat ttcaacaattt gcttcagtag aaaggattgt aggagaagat aaatatttct 360
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aagttataac tattcatttg aagtgccttg ctgctagtgg tttggagttt gattgttatg 480
gtggtggact ttccaagatc aacactcctt tattgacacc tcttaaattg tcactagaag 540
aatggagcac aaagccaact aacgacagct atggattatt tgcggttggt atgcatagtg 600
gcattacaat tagtagtggg cattacactg cttctgttaa agtcactgac cttaacagtt 660
tagaactaga taaaggaaat tttgtggttg accaaatgtg tgaaataggt aagccagaac 720
cattgaatga ggaggaagca aggggtgtgg ttgagaatta taatgatgaa gaagtgtcaa 780
ttagagtttg tggaaatata cagccaagta aagttttgaa caaaaaaat gtagaagcta 840
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ttaattaaat tatccaaaac ggaggcattt aaacacttgg atttacacca gtcttttgtg 1500
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tagttttata agagtcatga agctaaatcc ttgggctatg tcagaggcac aaagtctaga 1680
atgtgtgtat tcacaatggt gtatgtacat tttgtgcctt gattcactta gaagtgtctc 1740
agaaaacctg gacagttcgc ttctacacaa gaattttata tgtatttatg aagatgattc 1800
tgtaccctag tatactcttt tgggcatgga ctaatttgta tctgtttaac tcatattctg 1860
cacgatctgt atatagtaca tcaaacttag aggtgtgacc ttaaatttaa ctttttttaa 1920
aaactgggag gtcaataaaa tttaaactgc ttaactatgt atatgaatat ttgaattttt 1980
tacttgata tttttataaa tacagctgag ttttcttaaa gcg 2023
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<210> 527

<211> 2847

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2842)

<223> n equals a,t,g, or c

<400> 527

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tgtaaattggt cttttaatta attaaaaaga aattagtcag ctacaagcat gaacatgttg 180
aacgcttacc tttgtactag gcgtttttgt tttgtttta atggcttttg gaattattata 240
gtattaacat ctggaaaact aggtaaatth atcttagaat taagtntttn gctccttttt 300
tgcagaaaaa gaacagcaag aagcgattga acacattgat gaagtacaaa atgaaataga 360
cagacttaat gaacaagcca gtgaggagat tttgaaagta gaacagaaat ataacaaact 420
ccgccaacca ttttttcaga agaggtcaga attgatcgcc aaaatcccaa atttttgggt 480
aacaacattt gtcaaccatc cacaagtgtc tgcactgctt ggggaggaag atgaagaggc 540
actgcattat ttgaccagag ttgaagtgtc agaatttgaa gatattaaat caggttacag 600
aatagatttt tattttgatg aaaatcctta ctttgaaaat aaagttctct ccaaagaatt 660
tcatctgaat gagagtgggtg atccatcttc gaagtcacc gaaatcaaat ggaaatctgg 720
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2847

<210> 528

<211> 816

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 528

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gctatcctat tggtatcggg gacaaaattt gcttgagcca atccaaagtg ctccgtggac 180
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gcaagtgagg ctgacgtccg cccaagtggc ccagcccgcc ccgcgtctcg aaggggcacc 720
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816

<210> 529

<211> 885

<212> DNA

<213> Homo sapiens

450

<400> 529

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atcgtgcgcc gaggcccgcg aggggtcgcc gccagatcc caccagccag caagctaaag 180
catggcggcc atccctcca gcggctcgct cgtggccacc cagactact accggcgccg 240
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ctaccgccc gcccagcac tcgctagctt tcctgacacc tggaactgtg cacctggcac 780
caagcgaaaa ataaactcca agcagccagt agccccgatg gtgtgtgcct gagctgtgtg 840
gcccgaggtt ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 885
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<210> 530

<211> 742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (693)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (715)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (741)

<223> n equals a,t,g, or c

<400> 530

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ggtacctgac agtaccggtc ggaattcccc ggtcgacca cgcgtccgct gctgctctta 60
aaggtacagg cctcagggtc cctgctgtag acggggcggg ggagagtacg atgggtgggg 120
```

```

cgtggtgggt cgtagggcgc tcgagatgga gccccagct tccttgatgg atcgcggggc 180
gcgagtggcc tagacaagcc ggagctggga ccggcaatcg ggcgttgatc cttgtcacct 240
gtcgcagacc ctcacccctc ccgtgggagc cccctttgga cactctatga ccctggaccc 300
tcggggggacc tgaacttgat gcgatgggag gctgtgcagg ctcgcggcgg cgcttttcgg 360
attccgaggg ggaggagacc gtcccgagc cccggctccc tctgttggac catcaggggc 420
cgcattggaa gaacgcggtg ggcttctggc tgctgggcct ttgcaacaac ttctcttatg 480
tggtgatgct gagtgccgcc cacgacatcc ttagccacaa gaggacatcg ggaaaccaga 540
gccatgtgga cccaggccca acgccgatcc cccacaacag ctcacacga tttgactgca 600
actctgtctc tacggctgct gtgctcctgg cggacatcct cccacactc gtcacaaat 660
tggtggstyc tyttggsctt cacctgctgc cctnaccgt tgaggatgct gtgantctct 720
gtgctttatn ggggacagct ng 742

```

<210> 531

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 531

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gtcggcattc ccgggtcgac ccacgcgtcc gggcccgttt ccggcggcgt cgcgcgtttg 60
cgarccctcg gtggtcctca gggagggtct ctcggccaga acacgtggat gccacccac 120
cactgagcct catggagggtg gtaacatttg gcgatgtggc tgtgcacttc tctcgggagg 180
agtggcagtg tctggaccct ggccagaggg cctctacag ggaagtgatg ctggagaacc 240
acagcagtggt ggctggacta gcaggattcc tggttttcaa gcctgagctg atctctcggc 300
tgagcagggg agaagagcca tgggtcctcg acctgcargg agcagagggg acagaggcac 360
caargacctc caagacaggt gaggtctaga tcccatcgca gagaagccct ggggtgarga 420
gaaactkcar gaggggctca caactgtrgg tagctgtagg tgartcgcg gggctacact 480
kggatgcctg ggaatgctac tnggggaaan cagcatccaa canct 525

```

<210> 532

<211> 1925

<212> DNA

<213> Homo sapiens

<400> 532

```

gtggtctgag gccggtacag ctgcgcgtct gcgggaatag gtgcagcggg cccttgccgg 60
gggactctga gggaggagct ggggacggcg accctaggag agttctttgg ggtgactttc 120

```

```

aagatggact ctactctaac agcaagtga atccggcagc gatttataga tttcttcaag 180
aggaacgagc atacgtatgt tcactcgtct gccaccatcc cattggatga cccactttg 240
ctctttgcc aatgcaggcat gaaccagttt aaacccattt tcctgaacac aattgacca 300
tctcacccca tggcaaagct gagcagagct gccaataccc agaagtgcac ccgggctggg 360
ggcaaacata atgacctgga cgatgtgggc aaggatgtct atcatcacac cttcttcgag 420
atgctgggct cttgggtctt tggagattac tttaaggaat tggcatgtaa gatggctctg 480
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ccaacgagac ttaycgagat gctgttcgaa gagtcatgtt tgctcgatat aaagaactcg 1740
attaagaaag gagacaagtt ccatgggata caacctccct cttgttttgt ttgtctctcc 1800
ttttcttttg ttactgttct tgctgctaga acttttttaa ataaactttt tttcaatgtg 1860
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg 1920
ggggg                                           1925

```

<210> 533

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (482)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<400> 533

catagaggca aacggtacac tgacagtacc gtccggaatt cccgggtcga cccacgcgtc 60
cgggccgcaa agcctgagtc ctgtccttcc tctctccccg gacagcatga gcttcaccac 120
tcgctccacc ttctccacca actaccggtc cctgggctct gtccaggcgc ccagctacgg 180
cgcccgccg gtcagcagcg cggccagcgt ctatgcaggc gctgggggct ctggttccc 240
gatctccgtg tcccgtcca ccagcttcag gggcggcatg gggccgggg gcctggccac 300
cgggatagcc gggggtctg caggaatggg agcatccaga acgagaagga gaccatgcaa 360
aagctgaacg accgcctggc ctcttacctg gacaaaatga aggagcctgg agaccgagaa 420
accggagggt ggaaagcaaa aaccggggag cactttggag aagaagganc ccaggtcaga 480
gnctggnagc cattaattca ag 502

<210> 534

<211> 1800

<212> DNA

<213> Homo sapiens

<400> 534

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tggaactcggg ggagaagggg gccgccacct ccgtctccaa cccgcggggg cgacgcgtccc 180
ggggccggcc gccgaagctg cagcgcaact ctgcgcggcg ccagggccga ggtgtggaga 240
agcccccgca cctggcagcc ctaattctgg cccggggagg cagcaaaagg atccccctga 300
agaacattaa gcacctggcg ggggtcccgc tcattggctg ggtcctgcgt gcggccctgg 360
attcaggggc cttccagagt gtatgggttt cgacagacca tgatgaaatt gagaatgtgg 420
ccaaacaatt tgggtgcaca gtatcatcga gaagtctga agtttcaaaa gacagctcta 480
cctcactaga tgccatcata gaatttctta attatcataa tgaggttgac attgtaggaa 540
atattcaagc tacttctcca tgtttacatc ctactgatct tcaaaaagtt gcagaaatga 600
ttcgagaaga aggatatgat tctgttttct ctgttgtgag acgccatcag ttctgatgga 660
gtgaaattca gaaaggagtt cgtgaagtga ccgaacctct gaattttaat ccagctaaac 720
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atattgatgg atgtctcacc aatggccaca tttatgtatc aggagaccaa aaagaaataa 1020
tatcttatga tgtaaaagat gctattggga taagtttatt aaagaaaagt ggtattgagg 1080
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tgggcctgtg ctggaaagaa gtggcatatc ttggaaatga agtgtctgat gaagagtgtc 1260
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gagaaaaaaa tgatacagc ttcttcagcc agtttgcttt tatttttgat taagtaaatt 1500
ccatgttgta atgttacaga gagtgtgatt ttggttgatg tatatatata ttgtgtctta 1560
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gtaaatgcaa gtaagaacat catcaaagtt cactttgtat tgtaccctgt aaaactgtgt 1680
gtttgtgtgc tttcaaagat gttgggattt tatttatctg gggacagtgt gtatggtaag 1740
acatgccctt ctattaataa aactacattt ctcaaaactg aaaaaaactc gtgccgaatt 1800

<210> 535

<211> 2497

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2487)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2493)

<223> n equals a,t,g, or c

<400> 535

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ccgctgctgc tgctgggagg atggaagcgc tggcgccggg ggcggggcggc ccggcatgta 120
gtagcgggtg tgctgggcca cgtgggccgc agcccccgtg tgcagtacca cgcgctgtcg 180
ttggccatgc acggtctctc ggtgaccctc ctgggggttct gcaactccaa accccatgat 240
gagctcttgc agaacaacag aattcagatt gtggggttga cagaacttca gactcttgca 300
gttgggcccc gagttttcca gtacggagtc aaagttgtac ttcaggctat gtacttgctg 360
tggaagtga tgtggaggga gccaggtgcc tatactcttc tccagaacct cccaggtctg 420
cctagcattg ctgtctgctg gttcgtgggc tgcctttgtg gaagcaagct cgtcattgac 480
tggcacaact atggctactc catcatgggt ctggtgcatg gcccacaacca tcccctcgtt 540
ctgctggcca agtggtacga gaagttcttt gggcgccctgt cccacctgaa cctgtgtgtt 600
accaatgcta tgcgagaaga cctggcggat aactggcaca tcagggtgtg gaccgtctac 660
gacaagcccc catctttctt taaagagaca cctctggacc tgcagcaccg gctcttcatg 720
aagctgggca gcatgcactc tccgttcagg gcccgtcag aacctgagga cccagtcacg 780
gagcggtcgg ccttcacgga gcgggatgct gggagcgggc tggtgacgcg tctccgtgag 840
cggccagccc tgctggtcag cagcacgagc tggacagagg acgaagactt ctccatcctg 900
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aagcacttcc agcacatcca ggtctgcacc ccctggctgg aggccgagga ctacccccctg 1080
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ggatgtggca gctgcagtgg gcttggcctt gtgaggaaact gagtgtgtcc acgttggggg 1860
aacatcatat ttgatacaca cgtttttatt tgcacaaaaga aaatgctrtt tttggagcca 1920
```



```

gaattttcat gtctgattta tgggtgatttt ctttaagaacc agaactgctg gcagaaaggg 1980
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ctggcacgtc tctgggttgc ggacrgtaaa ggccaygtag acctcaggag cccgctgggtg 2340
ctcccagcag gcagccagcc tccgcaggac sccgaccags gacaygatgg cttctgggca 2400
atacagcacg tctacggtga aagcttcagg ttactgtctt aatgacaaca tctggctgga 2460
aggccanaac tgatggaccg cactacntcc cantcca

```

2497

```

<210> 536
<211> 4090
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (535)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (2475)
<223> n equals a,t,g, or c

```

```

<400> 536
ccggccacga gaagaaatca ggggtgctcag ctatctgcag gngtggaccc agggcccaag 60
cctgtggctt ccagtcagtc cagcccgcac ctctcccatg ggagggcctg aragcgcggg 120
aacatcctgg gcccctggga tctcagagggc tggaccttc tgggagactc attgagtaag 180
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ttccccatga gaaaaagcag ctggagctgg gaagtcccac ctggccatcg tgcagaaggt 300
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ccgaagccgg aagcgggtgt ctgagaagaa caagcgtgac ttctctgcct tcaaggatgc 480
ggacaatgag ctcaaagtga aaatctcccc gcagctcctc ctggccgntc atcgnntcct 540
agccacagag gtctctcagt ttagcccttc cctgatatac gagaagatcc tgcctcggct 600
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ccgccattac ctgtacaccc gaaataagcc ggccgactac ttcctctcta tctgcagggt 720
gaaggtggag gtggaggcag ggaaggagaa catgaagttt gagacgggag ccttctccta 780
ctatgggact atggccctga cctcgggtccc ctccgaccgt tccccagcac accccacccc 840

```

```

actcagccgc tcagcctccc tcagttaccc agaccgcaca gacgtctcaa ctgcagcaac 900
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cagcgtccgg gcaactcgtg acttgcaagta catcaagatc actcggcagc agtaccagaa 1020
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tcagctgcca taagcatgag tcctgtgaaa cagatcccat agsgcccttg gcttgtgagt 3840
actggaaggg cagtgggctt cagcaaattg cccctcctcc ctacccatgg gactgaaaga 3900

```

```

agcttgatcc aaaagtatga gtaatatgtggt tttataacat gcagctgcct tttcgtccac 3960
acctacaggc tagtgggtttc aaagtgtggag tggtcatccc ttgaagaacc tgagttacgt 4020
cactataccc actctcaaag ttgcagctct gcaggggact cccatggtgc tgtacagggtg 4080
ctactctgcc                                     4090

```

<210> 537

<211> 586

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<400> 537

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gcgctcgtgt gcgctcctgg gcgctcgccg ccgcccgtgc cgccgcgcgc ctttgagtca 120
gcaaactccg cggcccgcaa gcccggtcgc gcccgccct gctctgttct gcccgaggga 180
gccgcccatt gatcgtgtcc tgtgctgaag atgtttccgg aacaacagaa agaggaattt 240
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<210> 538

<211> 1250

<212> DNA

<213> Homo sapiens

<400> 538

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<210> 539

<211> 1350

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1349)

<223> n equals a,t,g, or c

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<210> 540

<211> 2509

<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (367)
<223> n equals a,t,g, or c

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<211> 1743

<212> DNA

<213> Homo sapiens

<400> 541

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ccc 1743

<210> 542

<211> 2210

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 542

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<211> 1715

<212> DNA

<213> Homo sapiens

<400> 543

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<210> 544

<211> 3109

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 544

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<210> 545

<211> 1176

<212> DNA

<213> Homo sapiens

<400> 545

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<210> 546

<211> 1735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<400> 546

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cggcagcccc agcccgaggt atacgctttt ccgccttcag gatgagcagg aggaagtgtc 240
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465

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<210> 547

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1043)

<223> n equals a,t,g, or c

<400> 547

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gccagaattt ccacatgttc acaaaggaag aacttgaaga ggttatcaag gacatttaag 840
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<210> 548

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (724)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (727)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (734)
<223> n equals a,t,g, or c

<400> 548
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgnc 720
ctantnttaa atcncg 736

<210> 549
<211> 2231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2224)
<223> n equals a,t,g, or c

<400> 549
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atatgcctac aaaagggtctg tcttgtaact gttgtataaa ataaacctaa tctatggttt 180
catttttaat ctaaaaaaag ttgtgcctta acaatagggc attgtatggt aataagggaa 240
aacaaccttt ttagtagatg ggggaaaata ggaacttttt gccattaaaa cttaagttct 300
tttgatgttt ttaatatatt agttggggga gattcattaa aattaaattg aaataaaatt 360
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<210> 550

<211> 1816

<212> DNA

<213> Homo sapiens

<400> 550

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<210> 551

<211> 2610

<212> DNA

<213> Homo sapiens

<400> 551

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2610

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<210> 552

<211> 4021

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4000)

<223> n equals a,t,g, or c

<400> 552

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<212> DNA

<213> Homo sapiens

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<211> 790

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<400> 558

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<210> 559

<211> 558

<212> DNA

<213> Homo sapiens

<400> 559

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<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (17)

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<210> 561

<211> 3043

<212> DNA

<213> Homo sapiens

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<222> (3038)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3039)
<223> n equals a,t,g, or c

<400> 561
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3043

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<210> 562

<211> 1386

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<400> 562

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<210> 563

<211> 2638

<212> DNA

<213> Homo sapiens

<400> 563

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<210> 564

<211> 691

<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<220>
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<222> (650)
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<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<400> 564
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<210> 565
<211> 1967
<212> DNA
<213> Homo sapiens

<400> 565

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<210> 566

<211> 1334

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<221> misc feature
<222> (1312)
<223> n equals a,t,g, or c

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tcgagggggc caag 1334

<210> 567
<211> 1610
<212> DNA
<213> Homo sapiens

<400> 567
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gaaagcacta ggtttcttgc attcaaaagag taaagattct gctgaaaagc taaaagcact 180
gcttgatgaa tctttggctc ggggcattga ttccagttac cgtccatctc aaaaggatgt 240
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atccagtctt ccttctggta ataataatgg caaggctctc acaactgaaa aggtaaagaa 360
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tccaaagaaa cctagattgg agaaaccaga aacacagtca tctcccatta ctgtccaaag 480
tagcaaggat ttacctatgg ctgaccttcc cagttttgag gagaccagtg ctgatgattt 540
tgccatggag atgggattgg cctgcgttgt ttgtaggcaa atgatggtgg catctggcaa 600

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tcaattagta gaatgtcagg agtgccataa tctctaccac cgagattgtc ataaacccca 660
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<210> 568

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1037)

<223> n equals a,t,g, or c

<400> 568

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ggaagaatca tgttagttct gacctcaata ctatagtaac ttttaggcgt ggggtgtagaa 240
gtttataggt ttctattgac agttattgta aattagcatt tactgtggta caaattcttt 300
ataactgact tagtcatttg ccgcttagca gtttatatac tgaaatgaaa acatcttggtg 360
gggaaaagtg acttttagatt atgaactcaa ttcaaataaa ctctatttaa aatgggggtcc 420
tattttggac aaaggaaatt aagaatgtaa aagtcagaac agtcttgagg taaaaagtggt 480
gctttggctt aaaagggtata cagtatatta attacatctt ttattattat tgtttatttc 540
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catttttctt attacagcct ttgagacagc tggtaattat aagtcatttt ccatttttta 660
aaacataatt ttataaagaa ttctcttatt tcgactatgt agaataccac ctactggaca 720
gaacaatttt tgtactcaca aacactgccg ttttcttaga gatggcttga gaggagtaac 780
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tacaagaca ccatttggtt ttattttcat tctttgkttt aactcatgtg gtagtgatat 960
ttaatacttt ctgatcaaac aggttcaaag taaaacgtta aatttcacat ttcttttnaa 1020

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agaactctta aagtgtgaca gttacgccat acttcataag tggtaaagaa aggtataaaa 1080
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1412

<210> 569

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 569

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gccatggcta gtcagtctca ggggattcag cagctgctgc aggccgagaa gcgggcagcc 180
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1125

<210> 570

<211> 1916

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1899)

<223> n equals a,t,g, or c

<400> 570

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gattgggtga gggggacggg gatgtcaggg aggcaagtgt gttgtgttac tgtgtcaata 1860
aactgattta aagttraaaa aaaaaaaaaa aaaaactcng rgggggcgct atagtg 1916

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<210> 571

<211> 1253

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1212)

<223> n equals a,t,g, or c

<400> 571

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aggaccgga atgaagacga aggcgctcac cattaaatcg tacggctcgc actgccccct 120
gccgcagtc cagcgctctt aaccgtttct gcggcagctc tggaggccgc ggctttggct 180

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cagggaaagc catgctccca ggactccttc cttgcagcct taaatcggtc tgtacggaaa 240
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<210> 572

<211> 2013

<212> DNA

<213> Homo sapiens

<400> 572

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cctgtacgtc tgctcatgca ccaggcagca cagccgcagt tcctcagttg ttgttttgac 240
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caaattctat ataataagaa aaaaaaaaaa aaa 2013

<210> 573

<211> 669

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (638)

<223> n equals a,t,g, or c

<400> 573

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<211> 2020

<212> DNA

<213> Homo sapiens

<400> 576

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<211> 3161

<212> DNA

<213> Homo sapiens

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3161

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<213> Homo sapiens

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<213> Homo sapiens

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3067

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<210> 581
<211> 1574
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature

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<222> (457)

<223> n equals a,t,g, or c

<400> 581

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1574

<210> 582

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (939)

<223> n equals a,t,g, or c

<400> 582

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<210> 583

<211> 541

<212> DNA

<213> Homo sapiens

<400> 583

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cgggctycty caacctgtgg gtccccctca tccactgcaa actgctggac atcgcttgct 480
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541

<210> 584

<211> 2968

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (454)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1437)

<223> n equals a,t,g, or c

<220>
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<222> (2961)
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<220>
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<222> (2964)
<223> n equals a,t,g, or c

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<210> 585

<211> 2608

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<400> 585

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500

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<210> 586

<211> 1893

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1184)

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<220>

<221> misc feature

<222> (1865)

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<220>

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<222> (1883)

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<220>

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<222> (1887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<400> 586

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1893

<210> 587

<211> 2463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2413)

<223> n equals a,t,g, or c

<400> 587

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<211> 1945

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (1939)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1945)

<223> n equals a,t,g, or c

<400> 588

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<211> 816

<212> DNA

<213> Homo sapiens

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<211> 2307

<212> DNA

<213> Homo sapiens

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<212> DNA

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<220>

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<210> 594

<211> 1904

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1893)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1903)

<223> n equals a,t,g, or c

<400> 594

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gatgatatcg ccgcgtcgt cgtcgacaac ggctccggca tgtgcaaggc cggcttcgcg 180
ggcgacgatg cccccgggc cgtcttcccc tccatcgtgg ggcgccccag gcaccagggc 240
gtgatggtgg gcatgggtca gaaggattoc tatgtgggag acgaggccca gagcaagaga 300
ggcatcctca ccctgaagta ccccatcgag cagggcatcg tcaccaactg ggacgacatg 360
gagaaaactt ggcaccacac ctctacaat gagctgcgtg tggctcccga ggagaccccc 420
gtgctgctga ccgaggcccc cctgaacccc aaggccaacc gcgagaagat gaccagatc 480
atgtttgaga ccttcaacac cccagccatg tacgttgcta tccaggctgt gctatccctg 540
tacgcctctg gccgtaccac tggcatcgtg atggactccg gtgacggggg caccacact 600
gtgcccctct acgaggggta tgccctcccc catgccatcc tgcgtctgga cctggctggc 660

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cgggacctga ctgactacct catgaagatc ctcaccgagc gcggctacag cttcaccacc 720
acggcccgagc gggaaatcgt gcgtgacatt aaggagaagc tgtgctacgt cgccctggac 780
ttcgagcaag agatggccac ggctgcttcc agctcctccc tggagaagag ctacgagctg 840
cctgacggcc aggtcatcac cattggcaat gagcggttcc gctgccctga ggcactcttc 900
cagccttcct tcctgggcat ggagtcctgt ggcatccacg aaactacctt caactccatc 960
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accaccatgt accctggcat tgccgacagg atgcagaagg agatcactgc cctggcacc 1080
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gacgagtcgg gccccctccat cgtccaccgc aaatgcttct aggcgggacta tgacttagtt 1260
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ttttgaatga tgagccttcg tgccccccct tccccctttt ttgtcccca acttgagatg 1740
tatgaaggct tttgggtctc ctgggagtgg gtggaggcag ccagggttta cctgtacact 1800
gacttgagac cagttgaata aaagtgcaca ccttaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaaaaaa aaaaaaanag gggggggccc ccnanggggc ccna 1904

<210> 595

<211> 337

<212> DNA

<213> Homo sapiens

<400> 595

ctagttcttag atcgcgagcg gcgccctttt tttttttytt tgtaagtcg ttccctctac 60
aaaggacttc ctagtgggtg tgaaaggcag cggtagccac agaggcggcg gagagatggc 120
cttcagcrgt tcccaggctc cctaccctgag tccagctgtc cccttttctg ggactattca 180
aggaggcttc caggacggac ttcagatcac tgtcaatggg accgttctca gctccagtgg 240
aaccagtggg aatgacattg ccttccactt caaccctcgg tttgaagatg gaggggtacgt 300
ggtgtgcaca gcaggcagaa cggaagctgg ggggccc 337

<210> 596

<211> 1288

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (1287)
 <223> n equals a,t,g, or c

<400> 596
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 aagtgactag ctccccttcg ttgtcagcca gggacgagaa cacagccacg ctcccacccg 180
 gctgccaacg atccctcggc ggcgatgtcg gccgccggtg cccgaggcct gcggggccacc 240
 taccaccggc tcctcgataa agtggagctg atgctgcccg agaaattgag gccgttgtag 300
 aaccatccag cagggtccag aacagtttty ttctgggctc caattatgaa atggggggtg 360
 gtgtgtgctg gattggctga tatggccaga cctgcagaaa aacttagcac agctcaatct 420
 gctgttttga tggctacagg gtttatttgg tcaagatact cacttgtaat tattccaaaa 480
 aattggagtc tgtttgctgt taatttcttt gtgggggcag caggagcctc tcagcttttt 540
 cgtatttgga gatataacca agaactaaaa gctaaagcac acaaataaaa gagttcctga 600
 tcacctgaac aatctagatg tggacaaaac cattgggacc tagtttatta tttggttatt 660
 gataaagcaa agctaactgt gtgttttagaa ggcactgtaa ctggtagcta gttcttgatt 720
 caatagaaaa atgcagcaaa cttttaataa cagtctctct acatgactta aggaacttat 780
 ctatggatat tagtaacatt tttctaccat ttgtccgtaa taaaccatac ttgctcgtat 840
 ataccctcg cctccttctg ttccagtcag ccaacatatg tacataaaaag aacacacaaa 900
 ttcaagaagt tggaagatta aattatctgc ttatttagtg taggatggtc aggtagctag 960
 ctataagtga aaggaaatth ttgctgaagag actgagaaat gggtagtgga atgactatca 1020
 agatgacctc aaactattta aaaacatttt aacttgccat gaagaatctt gatgattttt 1080
 gtataaatgt tgtataaaat tcttttacag ctacagattt ttaaatagga tcattgtaar 1140
 gattaatgag ataattgttt aacatagtgc ctgggtccat gataagtgtt aaatttttca 1200
 attaccctca gtaactgata atgtagcaag aaaatactct atattcagac agacctgaat 1260
 ttgatcccg ctctatacta ccntngna 1288

<210> 597
 <211> 1052
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (937)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (943)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (995)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1004)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1009)

<223> n equals a,t,g, or c.

<220>

<221> misc feature

<222> (1040)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1051)

<223> n equals a,t,g, or c

<400> 597

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accccaaata aggaagattg tggatcaa atgacctgat aggcaaactc taatgtggag 180
tgcgacttgg ccaaaagaag taagacagct tgcgtgaagat ttcctgaaag actatattca 240
tataaacatt ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt 300
gtgtcatgac gtagaaaagg atgaaaaact tattcgtcta atggaagaga tcatgagtga 360
gaaggagaat aaaaccattg tttttgtgga aaccaaaga agatgtgatg agcttaccag 420
aaaaatgagg agagatgggt ggcctgccat gggtatccat ggtgacaaga gtcaacaaga 480
gcgtgactgg gttctaaatg aattcaaaca tggaaaagct cctattctga ttgctacaga 540
tgtggcctcc agagggctag atgtggaaga tgtgaaattt gtcattcaatt atgactaccc 600
taactcctca gaggattata ttcattcgaat tggaagaact gctcgcagta ccaaaacagg 660
cacagcatac actttcttta cacctaataa cataaagcaa gtgagcgacc ttatctctgt 720
gcttcgtgaa gctaatacaag caattaatcc cmagttgctt cagttggtcg aagacagagg 780
ttcaggtcgt tccaggggta gaggaggcat gaaggatgac cgtcgggaca gatactctgc 840
gggcaaaagg ggtggattta ataccttag agacagggaa aattatgaca gaggttactc 900
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<210> 598

<211> 2093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1422)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1481)
<223> n equals a,t,g, or c

<400> 598
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gcacccatgc acacacctac gcacacacaa cactccgcac tgcagtatat tcttgccaaa 180
gatttccttt aaaagcaagc acttttacta attattattt tgtaaagtgt tatcttcttc 240
tgtcttctcc ctccctgaat ctattttact gttgtttatt gttgaatctg tgtgtcagcc 300
aggagagcgc tgtctggcct tgaacatggg ctgggatggg aaagggctct ggagaagatg 360
ggcaacaaa agccaggagg tcatggacat cgcagcgacg cagaccccag cagggtcagt 420
cccgtgctgc caccagctgt ccagctgggt gtctggaggg aagagggcag aggagggca 480
tgtcccttca gctgggggag gggcccagtg agctccacgt ggcttttcc caaagggagc 540
aagaggggag gattgggcga gaaaacaatg gagaggggac ctgcgaaggga aaacaggagg 600
gaagtggagc gtttgatcag cctgctatca cgggtgtctg gctctcttat ttagccaggc 660
gcttaaggga cagatacatc acatcctaag tttgggaaag gcctttgacc catgtcatct 720
gagcgtctcc tccagtagct ctgaaagctg tggacaccaa tggccaggat tcttctctcc 780
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catatccac gcctgggctc ttgccagcag tggagttact gtagagggat gtcccaagct 1620
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aaatcctggt gtmgtctcct tatcctggac atgaatgtat tgtacactga cgcgtcccca 1980
ctcctgtaca gctgctttgt ttctttgcaa tgcattgtat ggctttataa atgataaagt 2040
taaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2093

<210> 599
<211> 562
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (445)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 599

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ctgaggccac aggcacacac cgccacacct ggctaatttt tattattttt tttgtagaga 120
cgagggtctca ctatgccag gttggtctca aactcctgtg ctcaagcaat cctcccatct 180

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tggtcccta agtgctggga ttataggcat gagccaccgt gcccgccctc atgtctgcat 240
gttaaaagt ctgagaattc ctatggaaaa taaatttgac ttgtctaat gcagttcctc 300
taaacttact taattccttt ttcttttttt ctttactatt tattaattnt tctcttttct 360
cagaccttgc agggatgaaa ggncccttt tctcaaaacc ctcttatgat ctctacactc 420
tgcaagggt tctgaangac agcangctga gaaaggccga tcctaacact tanctctttg 480
aagacacttt taaaactggt aacagtattt atagctttaa aagnacccat ggttcttaag 540
gcccgttant aaaaaaaaaa nn 562
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<210> 600

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (444)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 600

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gccgctctag aactagtgga tcccccgggc tgcaggaatt cggnacgagg gaggctgagg 120
ctggagtgca gtggtgtgat ctgggtcac tgcaacctct gcctcccagg ttccagcaat 180
tctcctgcct cagcctccct agtggctggg atgacaggcg cctgccatca tgcctgacta 240
gtttttgtat ttttagttaga gacggcggtt caccatgttg gccaggctgg tctcaaactc 300
ctgacctcag gtgatccgcc tacctcagcc tcccaaagtg ctgggattac aggcgtgatac 360
caccacacct ggcccttgca atcttctact ttaagggttg cagagataaa ccaatanatc 420
cacaccgtac atctgcaata tganttcaag aaaggaanta gtaccttcaa tacttaaaaa 480
tagtcttcca canaaaatac tttattnctg atctatacaa attttcag 528
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<210> 601

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (160)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<400> 601
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atattttgcg agtactcaac accaaccatcg atgggcggcg gaaaatagcc tttgccatca 120
ctgccattaa ggggtgtgggc cgaanatatg ctcattgtggn gttgaggaaa gnanacattg 180
acctnaccaa nagggcggnna gaactcactg angatgangt ggaacgtgtg atcaccatta 240
tgcagaatcn acgccagtac aagatcccag actgggttctt gaacagacag aatgatngta 300
angatnaatc tacttcaagc taacatgcta tcatttctac nttgagtact gctaagggtt 360
ctttccacaa cttgtacaca atgttattna ctgcccagtt tataatttcc ctnttggttc 420
ccattttaag acttatttaa ttantatgcn ttttaaattt ttgagacntg ataga 475

<210> 602
<211> 288
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

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<400> 602
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cctgtccctg gactctggaa tgtntggctg aagttgaggn tctcttactc tctaggccac 120
ggaattaacc cgagcaggca tggaggcctc tgctctcacc tcatcagcag tgaccagtgt 180
ggccaaagtg gtcagggtgg cctctggctc tgccgtagtt ttgcccctgg ccaggattgc 240
tacagttgtg attggaggag ttgtggccat ggcggctgtg cccatggt                288

<210> 603
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 603
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gacttggtgtt gggactgctg ataggaagat gtcttcagga aatgctaaaa ttgggcaccc 120
tgcccccaac ttcaaagcca cagctgttat gccagatggt cagtttaaag atatcagcct 180
gtctgactac aaaaggaaaa tatgttgtgt tcttctttta ccctcttgac ttcacotttg 240
tgtgccccac ggagatcatt gctttcagtg atagggcaga agaatttaag aaactcaact 300
gccaagtgat tgggtgcttct gtggattctc acttctgtca tctagcatgg gtcaatacac 360
ctaanaaaca aggaggactg ggacccatga acattccttt ggtatcanac ccaacncaca 420
nttgntcagg at                432

<210> 604
<211> 371
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<400> 604
atttagtggtg ataaggagaa gaacctgctg catgtcacag acaccggtgt aggaatgacc 60
agagaagagt tggtaaaaaa ccttggtacc atagccaaat ctgggacaag cgagttttta 120
aacaaaatga ctgaagcaca ggaagatggc cagtcaactt ctgatttgat tggccagttt 180
ggtgtcgggtt tctattccgc cttccttgta gcagataagg ttattgtcac ttcaaaacac 240
aacaacgata cccagcacat ctgggagtct gactccaatg anttttctgt naattgctga 300
cccaagaggg aaacactcta ggacggggga acgacaattt acgtggagta tggaccaatt 360
tccttattaa g 371

<210> 605
<211> 392
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (330)
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<220>
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<222> (342)
<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (363)
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<400> 605
 ggcacagccg gcatcgtggt gtgttcttga ctccgctgct cgccatgtct tctcacaaga 60
 ctttcaggat taagcgattc ctggccaaga aacaaaagca aaatcgtccc attccccagt 120
 ggattcggat gaaaactggg aaataaaatc aggtacaact ccaaaaaggag acattggaga 180
 agaaccaagc tgggtctatg aaggaattgc acatgagatg gcacacatat ttatgctgtc 240
 tggaagggtgc acgatccatg ttaccatatg caagctggaa aatgtgcacc antatctggg 300
 agattttcga cgtgtttttc cncctctggan nctgtttatg gnacaagggt ggtttggttt 360
 ggntccatta aattaaatta ggtaaaggcc cc 392

<210> 606
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 <212> DNA
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 <223> n equals a,t,g, or c

<220>
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 <222> (312)
 <223> n equals a,t,g, or c

<220>
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 <222> (368)
 <223> n equals a,t,g, or c

<400> 606
 gcgtcttcag ggtggaagcc tggcgcacgt ccggagagac acccgccatt tcacccagta 60
 agcgggcccg gcctgcggag gtgggcggca tgcagctccg ctttgcccgg ctctccgagc 120
 acgccacggc cccacccggg ggctccgcgc gcgcgcggg ctacgacctg tacagtgcct 180
 atgattacac aataccacct atggagaaag ctgttgtgaa aacggacatt cagatagcgc 240
 tcccttctgg gtgtnatgga agagtggctc cacggtcagg cttggctgca aaacacttta 300
 ttgatgtagg antggtgtca tagatgaaga ttataagagg aatgttggtg ttgtactgtt 360
 taattttngg caagaaagtt tgaagtcaaa aaagggtgatc gaattgcaca gtcatttgca 420
 acggattttt tatccagaaa ta 442

<210> 607
 <211> 182
 <212> DNA
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 607

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agaaagtggg tgatccattt ttaagaaaag attggtatga tgtgaaagca cctgctatgt 120
tcantataag anatattgga aagacgctcg tcaccaggac ccaaggaacc aaaattgcat 180
ct 182
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<210> 608

<211> 673

<212> DNA

<213> Homo sapiens

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<220>

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<220>

<221> misc feature

<222> (561)

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<220>

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<222> (569)

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<222> (630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 608

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nncaaaatta accccctaataaaaattaatt aaccactcac tcatcgacct ccccaaccca 60
tccaacatct ccgcatgatg aaacttcggc tcaactccttg gcgcctgcct gatcctccaa 120
atcaccacag gactattcct agccatgcac tactcaccag acgcctcaac cgctttttca 180
tcaatcgccc acatcactcg agacgtaaat tatggctgaa tcatccgctg ccttcacgcc 240
aatggcgct caatattctt tatctgcctc ttctacaca tcgggcgagg cctatattac 300
ggatcatttc tctactcaga aacctgaaac atcggcatta tctcctgct tgcaactata 360
gcaacagcct tcataggcta tgcctcccg tgaggccaaa tatcattctg aggggccaca 420
gtaattacaa acttactatc cgccatccca tacattggga cagacctagt tcaatgaatc 480
tgaggaggct actcagtaga cagtccacc ctcacacgat tctttacct tcaacttcac 540
ttgcccttca ttattggcag ncctacagna ctcacctcta ttttttgccg aaacggggat 600
canncaacc ccttagggaa tcacctnccn tttccgataa aaatcaacct tncaccctt 660
actacacaat cat
673

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<210> 609

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

<220>
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<222> (545)
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<400> 609
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aaacttttgg acgacaatgg gaacattgct gaagaactga gcattctcaa atggaacaca 120
gacagtgtag aagaattcct gaggtaaaag ttggaacgca tataaatctt gcttaaattt 180
tgtcctatcc tttgtttacc ttatcaaag aaatattaca gcacctagaa aataatttag 240
ttttgcttgc ttccattgat cagtctttta cttgaggcat taaatatcta attaaatcgt 300
gaaatggcag tatagtccat gatctctaag gaggtagcaa gcttaacaaa acccattttt 360
tataaatgtc catcctnctg catttggtga taccactaac aaaatgcttt gtaacagact 420
tgcggttaaat tatgcaaatg atagtttgng ataattgggg ccaagtttta cgaacaacag 480
atttctaaat tagaganggt taccaggaca gatgatacta tgcctaaggg ctgggngccc 540
ttttnaagga aga 553

<210> 610
<211> 458
<212> DNA
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<220>
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<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
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<222> (281)
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<220>
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<222> (312)
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (316)
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<220>
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<222> (344)
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<220>
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<220>
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<220>
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<222> (442)
<223> n equals a,t,g, or c

<220>
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<222> (456)
<223> n equals a,t,g, or c

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tgactacttt gcgcaatggg acattagttg cattccgagg tcattatttc tggatgctaa 120
gtccattcag tccaccatct ccagctcgca gaattactga agttttgggg aatcctttcc 180
cccattgata ctgttttact aaggggaatt tttcnagaaa aggtngcagc attcagcagt 240

524

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atatttataa acaggaacct gtacagaagt gcccttgga naaggcctgc tctaaaatta 300
tccagtggta tngngnaacg acacagggtta agagacgtcg cttnaacgtg ctaaaaggac 360
ctttccaana cacaccatca gaatccataa tcacctgcca aatgggggtat cnagaccaag 420
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<210> 611

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

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<220>

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<221> misc feature

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<223> n equals a,t,g, or c

<400> 611

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ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggttgc agtgagccga 120
gatcgaccca ttgcactcca gtctgggcaa cagagtgaga ttccgtctca aaaaaaaaaa 180
gaaaaggaaa aaaaaatagc attatacctc ttccttgtct caaccgccat gaaaattctg 240
aacactccaa attcagttga ataatccaaa acaaaattta taagtataaa ataattttac 300
ttcttatagt aatagtatac tttaaaaagc ctcaggggtat attatcttct aaacagctac 360
aattcagtgc agctacatta accaactatg ttctctagtt gaggaacaac taggcctatt 420
tcaactgctg tagcctcag tgcctaacat gggtgccaaa taaatatng nggattacac 480
tgaattgtaa aaaccattcg tttttgttta caattgccaa aaatctcaaa aggnccctgta 540
tttatgtaat tctttgaaat tatta 565

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<210> 612

<211> 442

<212> DNA

<213> Homo sapiens

<220>
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<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (319)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (365)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (413)
<223> n equals a,t,g, or c

<220>
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<222> (415)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (441)
<223> n equals a,t,g, or c

<400> 612
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gtcggccacg tcgtccttcg gaggcctggg cggcggtcc gtgcgtattg ggccgggggt 120
cgcttttcgc gcgccagca ttcacggggg ctccggcggc cgcggcgat ccgtgtcctc 180
cgcccgttt gtgtcctcgt cctcctcggg gggctacggc ggcggctang gcggcgctcct 240
gaccgcgtcc gangggctgc tggcgggcaa cgagaagcta accatgcaga actnaangac 300
cgcttggctt ctactggana agttcgcncc tgnaggggca aagggaacta aaagttaaatt 360
ccgcnattgt acaaaacagg gcttggcctt cccggataaa gcattataaa gancntcagg 420
aattggggaa aaatttttgn nc 442

<210> 613
<211> 306-
<212> DNA
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<223> n equals a,t,g, or c

<220>
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<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
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<222> (185)
<223> n equals a,t,g, or c

<220>

<221> misc feature
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<220>
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 <222> (192)
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<220>
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 <222> (199)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (213)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (237)
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<220>
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<220>
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 <222> (299)
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<220>
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 <222> (302)
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<400> 613
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 cttccgaacc aagtttgaga cggaacaggc tctgcgcagc ancgtaggagg ccgacatcaa 120
 cggcctgcnc aggtgctgga tgagctgacc ctggcccaga accgaccttg gngatgcagt 180
 tctgangcctn angaagagnt ggcctaccta agnaggaccc tgagggggaa tcaattncgt 240
 taagggggcca atgggaggcc attaatTTTg anttgggtcc ttccggacct tttggccant 300
 cntgtt 306

<210> 614
 <211> 555
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc feature
<222> (392)
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<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
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<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 614
ggcgactaca gccactacta caccgaccatc caggacctgc gggacaagat tcttggtgcc 60
accattgaga actccaggat tgtcctgcag atcgacaatg cccgtctggc tgcagatgac 120
ttccgaacca agtttgagac ggaacaggct ctgcgcatga gcgtggaggc cgacatcaac 180
ggcctgcgca gggtgctgga tgagctgacc ctggccagga cgcacctgga gatgcagatc 240
gaaggcctga aggaagagct ggcctacctg aagaagaacc atgaggagga aatcagtacg 300
cttagggggc aagtgggagg ccaggctcagt gtggagggtg attccgctcc gggcaccgat 360
ctcgccaaga tcctgagtga catgcgaagc cnatatgagg tcatggccna gcagaaccgg 420
aaggatgctt aancctggtc accagcccgg actgaagaat tgaacccgga ggtcgcttgc 480
cacacggagc aacttcngat gagcaggctc aaggttactg acctgcggcg caacccttaa 540
ggnctgaga atgaa 555

<210> 615
<211> 575
<212> DNA
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<400> 615

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ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggctaa ggctgcgttg 120
gggtgagggc ctcacttcat ccggcgacta gcaccgcgtc cggcagcgcc agncctacac 180
tcgcccgcgc catggcctct gtctccgagc tcgcctgcat ctactcggcc ctcattctgc 240
acgacgatga ggtgacagtc acggaggata agatcaatgc cctcattaaa gcagccgggtg 300
taaagtgtga gccttttttg cctggcttgt ttgcaaaggc cctggccaac gtcaacattg 360
ggagcctcat ctgcaatgta ggggccgggtg gacctgctcc agcagctggt gctgcaacca 420
gcaggaggtc ctgcccctc cactgctgct gctccagctg aggagaagaa agtggaagca 480
aagaaagaag aatccgagga gtctgatgat gacatgggct ttggtctttt tgactaaacc 540
tcttttataa catgttcaat aaaaagctga acttt

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575

<210> 616

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<400> 616

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ctcgtgccga attcggcacg agccgccgcc tccgccgagc acgccgccgc gatgcgctac 60
gtgcctcct acctgctggc tgcctaggg ggcaactcct ccccgagcgc caagggnatc 120
aagaagatct tggacaacnt ggggtatcgag gcgagacgac accggctcaa caaggttatc 180
agtgaagtga atggaaaaaa cattgaagac gtcattgccc aggggtattgg caagcttgcc 240
agtgtacctg ctggtggggc tgtagccgtc tctgctgcc caggctctgc agccctgct 300
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346

530

<210> 617
<211> 409
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
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<222> (388)
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<222> (397)
<223> n equals a,t,g, or c

<220>
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<222> (408)
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<400> 617
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tcccgttccg ctgcccgcgc tgccaccatg acggaacagg ccattctcct cgccaaagac 120
ttcttggccg gaggcacgc cgccgccatc tccaagacgg ccgtggctcc gatcgagcgg 180
gtcaagctgc tgctgcaggc ccagcacgcc agcaagcaga tcgccgccga caagcagtac 240
aagggcatcg tggactgcat tgtccgcac cccaaggagc agggcggtgc gtccttctgg 300
aggggcaacc ttgccaacgt cattcgctac ttccccactc aagccctcaa cttcgncttc 360
aaggataagt acaagcagan cttcctgnng ggcgtnaca agcacacnc 409

<210> 618
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (9)
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<220>
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<222> (322)
<223> n equals a,t,g, or c

<220>
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<222> (337)
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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
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<222> (470)
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<400> 618
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gagagggggc gactattata caagttggca agttgatcaa agaagctgcc gggaaaagca 120
atctgaagag ggtgacctg gagcttggag gaaagagccc ttgcattgtg ttagctgatg 180
ccgacttggc caatgctgtt gaatttgcac accatggggt attctaccac cagggccagt 240
nttgtatagc cgcattncagg atttttgtgg aagaatcaat ttatgatgag ttgtttcgaa 300
ggagtgttga gcgggttaag antatatcct tgggaantcc tttgacccca gnagttcann 360
caagnccntc agattgacaa ggaccatttg gtaaatactt gacccattg agagtnggaa 420
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<210> 619
<211> 604
<212> DNA
<213> Homo sapiens

<220>
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<222> (5)
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<220>
<221> misc feature
<222> (371)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<220>
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<222> (500)
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<220>
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<222> (587)
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<220>
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<222> (593)
<223> n equals a,t,g, or c

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gaactagtgg atcccccgga ctgcaggaat tcggcacgag gtggtccccc tggcagggac 120
aaatggcgag actaccaccc aagggttgga tgggctgtct gagcgctgtg ccagtacaa 180
gaaggacgga gctgacttcg ccaagtggcg ttgtgtgctg aagattgggg aacacacccc 240
ctcagccctc gccatcatgg aaaatgccaa tggtctggcc cgttatgcca gtatctgcca 300
gcagaatggc attgtgcccc tcgtggagcc tgagatcctc cctgatgggg accatgactt 360
gaagcgcttg ncagtatgtg accgaaaagg tgcttggttc gctgctacaa ggctcttgag 420
tgaccaccac atctacctgn aaggcacctt gctgaagccc aacatggtcc ccagggccat 480

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gcttgcactc anaagttttn ttatgaagga gattgcccacat ggcgaacccg totcaanccg 540
tgtgcccgcga caantgcccc cccgcttgtc acttggggatc aacnttncct gtnttggaag 600
gcca 604

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<210> 620
<211> 312
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (41)
<223> n equals a,t,g, or c

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<220>
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<222> (307)
<223> n equals a,t,g, or c

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<220>
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<222> (309)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

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<220>
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<222> (311)
<223> n equals a,t,g, or c

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<220>
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<222> (312)
<223> n equals a,t,g, or c

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<400> 620
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ccagcgagtc cctcttcgtc tctaaccacg cctattaagc ggagggtgtc ccaggctgcc 120
cccaaacactc caggccctgc cccctcccac tcttgaagag gaggccgcct cctcggggct 180
ccaggctggc ttgcccgcgc tctttcttcc ctctgacag tgggtgtgtg tgctcgtctgt 240
gaatgctaag tccatcaccc tttccggcac actgccaaat aaacagctat ttaaggggga 300
aaaaaanann nn 312

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<210> 621
<211> 248
<212> DNA
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<222> (193)
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<220>
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<222> (195)
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<222> (198)
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<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
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ggttgacaga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 120
gctgtgagac tacctattgt ngatattgca ccctatgaca ttggtggtcc tgatcaagaa 180
tttgggtgtg acntnggncc tgtttgnttt ttataaacca aactctatct gaaatcccaa 240
caaaanaa 248

<210> 622
<211> 344
<212> DNA
<213> Homo sapiens

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<222> (4)

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<222> (19)

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<220>

<221> misc feature

<222> (31)

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<222> (273)

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<222> (279)

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<221> misc feature

<222> (283)

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<221> misc feature

<222> (297)

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<220>

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<222> (301)

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<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (310)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

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<220>
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gtatgggaaa tgccatgttt gtcaaagagc aactcagtc gctggacagg ttcacggagg 120
atgccaaagag gctgtatggc tccgaggcct ttgccactga ctttcaggac tcagctgcag 180
ctaagaagct catcaacgac tacgtgaaga atggaactcg agggactata acctgaacga 240
catacttctc cagctgaagt acacaggcaa tgnccagcna ctnttcatcc tgcctgntca 300
ngncaagatn gnggaagtgg aagccatgtt ggttttcaga gncc 344

<210> 623
<211> 316
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<400> 623
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cggctctgaag ggtctggctg gtgagccagg ttttaaaggc agccgagggg accctgggcc 120
cccaggacca cctcctgtca tcctgccagg aatgaaagac attaaaggag agaaaggaga 180
tgaagggcct atggggctga aaggatacct gggcgcaaaa ggtatccaag gaatgccagg 240
catcccangg ctgtcaggaa tccctgggct gcctgggagg cccggncaca tcanaggaat 300
caaggganac atngga 316

<210> 624
<211> 445
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
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<222> (187)
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<220>
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<222> (222)
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<220>
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<222> (241)
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<222> (253)
<223> n equals a,t,g, or c

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<221> misc feature
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<220>
<221> misc feature
<222> (311)
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<222> (327)
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<222> (331)
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<220>
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<222> (381)
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<220>
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<222> (383)
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<220>
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<222> (426)
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<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

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ccagggctat gcgccaagac cgtctttaag gcgctccagg cccctgcctt gnacgaagaa 120
catggtgaag gttggcggct acatccttg ggagtttggg aaacctgaat tntggggacc 180
cccgntncca gccccccagt ggcagttctc cctgctccac tncaagttcc atctgtgaca 240
ngtggccagg gncgctgct gctgtncac ctgacatcaa gttcatcaac ctctttcccc 300
gagaccaagg ncacatcca gggggtncgt nggggtcggg tttccagttg cgcaatggtg 360
acgtggagtt gcagcaggag ncntggagta acttcacctt cagttcatgg gtcagcaaca 420
agttcnggnc aggtgttnga ggagt
445

<210> 625
<211> 401
<212> DNA
<213> Homo sapiens

<220>

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<221> misc feature
<222> (33)
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<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
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<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
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<222> (397)
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<400> 625
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gtgtgatctg accggtcgcg ggggaccagc ccagccctat ttcggctcga gcgaggaact 120
tctgctcccg tgactgaact ctgatcttga tagagagtcc cggccatggc agccaaagga 180
ggcaccgtca aagctgcttc agcattcaat gccactgaag atgcccagac cctgaggaag 240
gccatgaagg ggcttggcac cgacgaagat gccatcatca gcgtcctcgc ctaccgcaac 300
acagcccagc gccaggaaat caggacggcc ttacaagagc accattcggc aggggacctt 360
gtgttaagga acggaccccn ttttgtttnn gantggngtg a 401

<210> 626
<211> 315
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
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<222> (257)
<223> n equals a,t,g, or c

<220>
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<222> (296)
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<220>
<221> misc feature
<222> (303)
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<220>
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<222> (308)
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gctggcacct gggccccccc gggagctggt gctgggtggtc cangtgcata accggccccga 120
atacctcana ctgctgctgg actcacttcg aaaagcccag ggnaattgac aacgtcctcg 180
tcattcttag ccatgacttc tggtcgaccg agatcaatca gctgatcgcc ggggtgaatn 240
tctgtccggt tctgcangtg ttctttcctt tcagcattca gttgttcctt aacgantttc 300
cangttantg accta 315

<210> 627

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542

<211> 412
<212> DNA
<213> Homo sapiens

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<222> (211)
<223> n equals a,t,g, or c

<220>
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<222> (282)
<223> n equals a,t,g, or c

<220>
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<222> (319)
<223> n equals a,t,g, or c

<220>
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<222> (320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<400> 627
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aagtgggata gagacatgta agcagcatca tggagggttg aagatgccgc atttggattg 120
gatgaattcc aaattctgct tgcttgcttt ttaatatgga tatgcttata cacttacact 180
ttatgcacaa aatgtagggt tataataatg ntaacatgga catgatcttc ttataaattc 240
tactttgagt gctgtctcca tgtttgatgt atctgagcag gntgctccac aggtagctct 300
agcagggtcg gcaacttann aggtgngag cagagaattc tcttatccaa catcaacatc 360
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<210> 628
<211> 577
<212> DNA
<213> Homo sapiens

<220>
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<222> (408)

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<220>
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<220>
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<220>
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<222> (445)
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<220>
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<222> (458)
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<222> (460)
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<222> (474)
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<220>
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<222> (518)
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<220>
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<222> (545)
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<222> (546)
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<220>
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<222> (560)
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<400> 628
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cactggccgt cgttttataa cgtcgtgact gggaaaaccc tggcgttacc caacttaatc 180
gccttgacgc acatccccct ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc 240
gcccttccca acagttgcgc agcctgaatg gcaaatggga cgcgccctgt agcggcgcat 300
taagcgcggc ggggtgtggtg gttacgcgca gcgtgaccgc tacacttgcc agcgccctac 360
gcccggtcct ttcgtttctt cccttccttt ctgcgccacgt tcgccggnnt tccccgtnaa 420
gctntaaatn gggggctncc tttanggttc cgattaangn tttacgggac cttngaccca 480
aaaacttgat tagggatgat gttacntaat gggccatngc ctgataaacg gttttgccct 540
ttgannttgg agtcccgttn ttaaaaggga ctttggt 577

<210> 629
<211> 703
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
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<222> (414)

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<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

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<221> misc feature
<222> (494)
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<220>
<221> misc feature
<222> (499)
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<222> (580)
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<222> (586)
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<222> (603)
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<223> n equals a,t,g, or c

<220>
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<222> (632)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (651)
<223> n equals a,t,g, or c

<220>
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<222> (668)
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<400> 629
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cgacgtcata gctcttctat agtgtcacct aaattcaatt cactggccgt cgttttacia 120
cgctcgtgact gggaaaaccc tggcgntacc caacttaatc gccttgacgc acatccccct 180
ttcgccagct ggcagtaata gcgaagaggg ccgcaccgat cgcccttccc aacagttgct 240
cagcctgaat ggcgaatggg acgcgccttg tagcggcgca ttaagcgagg cgggtgtggt 300
ggttacgcgc agcgtgaccg ctacacttgc cagcgcccta gcgnccgctc ctttcgcttt 360
cttcccttcc tttctcgcca cgttcgcccg ntttccccgt caagctctaa atcnggggct 420
ccctttangg ttccgatnta gtgctgtacg gcacctngac cccaaaaaac ttgattaggg 480
tgatggttca cgtngtggn c atcgccctga tagacggntt ttcgcccctt gacgttggag 540
nccacgttct taatagtggg ctctttggtc caaacnggan caacantgaa cccctatctc 600
ggncatttct tttgatttat nagggatttt gncgatttca ggncatttgg ntaaaaaatg 660
gatcttgntt ttaacaaaaa atttaaaccg cggaatttta agc 703

<210> 630
<211> 638
<212> DNA
<213> Homo sapiens

<220>

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<222> (70)
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<222> (72)
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<220>
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<222> (120)
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<222> (153)
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<220>
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<222> (213)
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<222> (222)
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<222> (245)
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<222> (256)
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<220>
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<222> (319)
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<223> n equals a,t,g, or c

<220>
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<222> (329)
<223> n equals a,t,g, or c

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<222> (351)
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<222> (574)
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tataggggtca cctaaattca attcactggc cgcgcgttta caacgtcgtg actgggaaaa 180
ccctggcggtt acccaactta atcgccttgc agnacatccc cntttcgcca gctggcgtaa 240
tagcnaaaag gcccgcnaccg atcgcccttc ccaacagttg cgcagcctga atggcaaatg 300
ggacncccc tgtaancgng cattaancnc ggcggggtgtg gnggttacct ncancgngac 360
cgctacactt gccagngccc tagcgcccg ccttttcgct ttcttccctt cctttntcgc 420
cacgttcgcc ggctttcccc gtcaagctnt aaatcggggg ctcccttttag ggttccgatt 480
aagngcttta cgggaccttn gnccccaaaa aaacttgatt aggggngatg gntcacngta 540
aaggggccat tgcccttgat aaaacgggtn tttingccctt ttgaccttgg aantccccgt 600
ttctttaaaa aangggacct tttggttcna actgggaa 638

<210> 631
<211> 187
<212> DNA
<213> Homo sapiens

<400> 631
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gacgtcatag ctcttctata gtgtcaccta aattcaattc actggccgtc gttttacaac 120
gtcgtgactg ggaaaaccct ggcggttacct aacttaatcg ccttgacgca catccccctt 180
tcgccag 187

<210> 632
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<213> Homo sapiens

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aagcttacgt acgcgtgcat gcgacgtcat agctcttcta tagtgtcacc taaattcaat 180
tcaactggccg tcgttttaca acgtcgtgac tgggaaaacc ctggcggtac ccaacttaat 240
cgccttgca ccatccccc ttccgccagc tggcgtaata gcgaagaggc ccgcaccgat 300
cgccc 305

<210> 633
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<212> DNA
<213> Homo sapiens

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cgctgcagg tacgggtccg gaattcccg gtcgaccac gcgtccgaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa gggnggacga tctagaggat ccaaagctta cgtaCncntn 180
natgcaa 187

<210> 634
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<212> DNA
<213> Homo sapiens

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atccaggcca naaagttcac agtcaaattg ggaggggtat tcttnatgca ggagaccca 180
ggccctggag gctgcnacat acctnaatcc tgtcccangc cggatcctnc tgaagccctt 240

ttt

243

<210> 635

<211> 180

<212> DNA

<213> Homo sapiens

<400> 635

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gagggggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 120
cttctatagt gtcacctaaa ttcaattcac tggcgcgtct tttacaacgt cgtgactggg 180

<210> 636

<211> 747

<212> DNA

<213> Homo sapiens

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<222> (6)

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<222> (497)

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ttacgtacgc gtgcatgcga cgtcatagct cttctatagt gtcacctaaa ttcaattcac 180
tggcgcgtcgt tttaaacgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 240
ttgcagcaca tcccccttgc gccagctggc gtaatagcga agaggccgc accgatcgcc 300
cttccaaca gttgcgcagc ctgaatggcg aatgggacgc gccctgtagc ggcgattaa 360
gcgcggcggg tgtggtggtt acgcgcagcg tgaccgctac acttgccagc gccctagcgc 420
ccgctccttt cgtttcttgc ccttcctttc tcgccacgtt cgcgggcttt ccccgtaag 480
ctctaaatcg ggggctncc ttagggntcc gatttaagt ctttacggac ctgcaccca 540
aaaaacttga ttagggtgat gggtcacgta gtgggccatc gcctgataga cggttttcgc 600
ctttgacgtt ggagtcacgt cttaataggg actcttgtn aaactggaac aacactnaac 660
ctatttggct atcttttgat tataaggatt tgccgattcg gcattggtaa aaatgagtgt 720
tacaaaatta cgcgattaca aaaatan 747

<210> 637
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<400> 637

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tcgtgactgg gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atcccccttt 180
cgccagctgg cgtaatagcg aagaggcccg caccgatcgc ctttccaac agttgcgcag 240
cctgaatggc gaatgggacg cgccctgtag cggcgccatta agcgcggcgg gtgtggtggt 300
tacgcgcagc gtgaccgcta cacttgccaa gcgcacctaa cgcccgttcc ttctgctttc 360
ttcctttctt ttttngccac gttcggccgg cttttcccg taaagcttta aatcnggggg 420
gttcccttaa ggggttccga ttaannggtt ttacgggaac ttngacccca aaaaaacttg 480
attagggggg aaggtnn                                     497
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<210> 638

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<212> DNA

<213> Homo sapiens

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<221> misc feature

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 acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgcccttgca cacaatcccc 180
 ttctgccagc tggcgtaata gcgaagaggc ccgcaccgat cgcccttccc aacagttgca 240
 cagcctgaat ggcaaatggg acgcgcacctg tagcgcgca ttaagcgcg cggtgtggt 300
 ggttacgcgc agcgtgaccg ntacacttgc cagcgcccta gcgccgntc ctttcgcttt 360
 ctctcttctt tctcggcacg gtcgnccggc tttncgcgc aagctntaaa tcgggggggt 420
 tccntttagg gggtccgaat taagggttt accgggaacc ntngaacccc caaaaaactt 480
 tgaattaggg tngaanggt tcacggtaa 509

<210> 639
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 <212> DNA
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 acgtcgtgac tgggaaaacc ctggcggttac ccaacttaat cgccttgacg cacatcccc 180
 ttctgccagc tggcataata gcgaagaggc ccgnaccgat cgcccttccc aacagttgcg 240
 cagcctgaat ggcgaaatggg acnccgcttg tagcgcgca ttaagcgcg cggtgtngt 300
 gggttacgcgc agcgtgaccg ctacacttgc agcnccctag cgcccgctcc ttctnnttn 360
 ttnccttctt ttntngcacg tttnacggtt ttcccgtaa gctctanac gggggctcct 420
 ttagggttcn atttaatgtt tacggacctt tanccaaaaa acttgatatg gttatggtta 480
 ntgtnttng ccattgcctt atttccc 507

<210> 640
 <211> 496
 <212> DNA
 <213> Homo sapiens

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gaagggnattc ctctgaatn cagcagagaa ctgaatcttt gcctggncaa gcagctggga 180

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aggatgggac gttactttgt gctgaactta caatatttca aaaggggttc ttacttcttn 240
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accattccca ggaaggntta ggcccagggn aaagganggt ttaagntggt tgtncncgaa 360
atTTTTtagg gngggttgng attgggcaan tnngtnggct ttggttgggg ggttccccctt 420
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tttttttggg ggaaaaa 496

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<210> 641

<211> 186

<212> DNA

<213> Homo sapiens

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tgaccagcag cgncgtgatat ttgccggnaa acagctggaa ggatggncgc aactctntca 180
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<212> DNA

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acacatgacc ccagccctct acagcggtaa ggtgaggagc ccacattnc cctgccctct 180
gagacttngg gggacgttgc cccctgana tgcagnnngg gcctgaatat gtgaaccagc 240
cagatgttcg gccccagccc ccttcgcccc gaagatgngc tngnctgctg cccgacctnc 300
ttggtgccac tctggnaagn ggccaagaat ctnttcccca gggaagaatt gggctcgtcaa 360
aagnggtttt tgcnttttgg gggttccggt gagaancccg agtangttta caacccaag 420
ggaagaanct tcccctnaag cccaacctt cttccttgct taagccagcc tttgacaacc 480
tctaataatt ggancaagan ccaacaaaac cgggggggtc 519

<210> 643

<211> 138

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<400> 643
agttccttgcc ngcaggcaac ccacttaggt ggccancaat cttgacttcc agatggaaga 60
gtgacatcta tnanaggaaa agtgatggca tntatatcat anntctcaag aggacctggg 120
agaagcttct gctgggca 138

<210> 644
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (554)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (562)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (591)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (602)
<223> n equals a,t,g, or c

<400> 644
gcccacgcgt ccggcgagct gagggttggt gtgggtcgcgt ctcggaacc ggtagcgctt 60
gcagcatggc tgaccaactg actgaagagc agattgcaga attcaaagaa gctttttcac 120
tatttgacaa agatggtgat ggaactataa caacaaagga attgggaact gtaatgagat 180
ctcttgggca gaatcccaca gaagcagagt tacaggacat gattaatgaa gtagatgctg 240
atggtaatgg cacaattgac ttccctgaat ttctgacaat gatggcaaga aaaatgaaag 300
acacagacag tgaagaagaa attagagaag cattccgtgt gtttgataag gatggcaatg 360
gctatattag tgctgcagaa cttcgccatg tgatgacaaa ctttggaaga gaagttaaca 420
gatgaagaag tttgatgaaa tgatcaggga agcagatatt gatggtgatg gtcaagtaaa 480
ctatgaagag tttgtaccaa atgatgacag caaaagtgaag agaccttttn ccagaatggg 540
gttaaaatttc ttgnaccaa antgggtaat ttggcctttt ctttggttg naacttatct 600
gn 602

<210> 645
<211> 112
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<400> 645

atntgttggg ccggaactgg gctngtttca ccggaagaa ngtggganct gcctctgana 60
atgtgtatgt ccacatacca caccttagga attctcacga aaagtnttcc aa 112

<210> 646

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (463)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 646
cagcgggcca ctctggatcc tgggcgacgt cttcatcggc cgctactaca ctgtgtttga 60
ccgtgacaac aacaggggtgg gcttcgccga ggctgcccgc ctctagtacc caaggcgacc 120
ggcgccagc acagaaacag aggagagtcc cagagcagga ggcccctggc ccagcgggcc 180
ctcccacaca ccccacaca ctgcgccgcc cactgtcctg ggcgccctgg aagccggcgg 240
gccaaagccga cttgctgttt tggtctgtgg ttccccctcc ctggggttcaa aaatgctgcc 300
tgctgtctgt ctctccatct tggttggtgg gttaaactga tccaaaanaa aatttggtcc 360
gtgattggaa aaaccaccca acttggaanc nactcttttt cctgggtcct tctctccagg 420
atcccccccg gctacaagc cgtnggttaa cctacccaac agngcncccg gcnccctgaa 480
ctgcngctaa gcccttccaa ttggccattg gtcc 514

<210> 647
<211> 525
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (25)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (73)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (480)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (517)
 <223> n equals a,t,g, or c

<400> 647
 ccctactaat ntgngcaaaa gcnengagct ccaccgcggt ggcgggcgct ctagaactag 60
 tggatccccc ggnttgccagg aattcggcac gagcacgcag cggcccgtgg acatcgtctt 120
 cctgctggac ggctccgagc ggctgggtga gcagaacttc cacaaggccc ggcgcttcgt 180
 ggagcaggtg gcgcggcggc tgacgctggc ccggagggac gacgaccctc tcaacgcacg 240
 cgtggcgctg ctgcagtttg gtggccccgg cgagcagcag gtggccttcc cgctgagcca 300
 caacctcacg gccatccacg aggcgctgga gaccacgcaa tacctgaact cttctcgca 360
 cgtgggcgca ggcgtggtgc acgccatcaa tgccatcgtg cgcagcccgc gtggcggggc 420
 ccggaggcac gcagagctgc cttcgtggtc ctcacggacg gcgtcacggg caacgacagn 480
 ctgacgagtc ggcgcactcc atgcgcaagc agaacgngga cccac 525

<210> 648
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 648
gcncagatgg gcatgctgaa ggggcctctt cttaacaaat ttctgaccac agccaaagat 60
aagaaccgct gggaggacnc tggttaagcag ctctacaacg tggaggccac atcctatncc 120
ctcttngccc tactgcagct aaaagncttt gactttgtnc ctcccgtcgt ncnttngctc 180
aatgnacaga gatnctacgg tgggtgntat ggctctaccc aggccacctt catggtgttc 240
caagncttag ctcaatanca gaaggacggc cctgaccacc aggactgaa ccttgangtg 300
nacctccaaa tgctcng 317

<210> 649
<211> 575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<400> 649

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gtaggaacac cctcatcatc tacctggaca aggtctcaca ctctgaggat gactgtcttag 60
ctttcaaagt tcaccaatac tttaatgtag agcttatcca gcctggagca gtcaaggtct 120
acgcctatta caacctggag gaaagctgta ccggttcta ccatccgga aaggaggatg 180
gaaagctgaa caagctctgc cgtgatgaac tgtgccgctg tgctgaggag aattgcttca 240
tacaaaagtc ggatgacaag gtcaccctgg aagaacggct ggacaaggcc tgtgagccag 300
gagtggacta tgtgtacaag acccgactgg caaggttcaa gctgtccaat gactttgacc 360
gagtacatca tggccattga gcagaccatc aagtcaggct cggatgaggt gcaggttggg 420
cagcagcgca cgttcatcag ccccatcaag tgcagagaag ccctgaagct tgaggagaag 480
aaacactact tcatgtggg nctcttctnc caattctggg gagagaagcc caaccttagc 540
tacatcatcg ggaaggacac ttgggtggag cactg 575

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<210> 650

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (186)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (265)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<400> 650

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tcgacccacg cgtccggcat tgtctatcat tgcactggag atccaagcac agaagtgtgt 60
agagttaaca gaaggaatag aatgtcttca gacacattcc aagataaatg gcagagattt 120
gaccttcttg caagaacttg tatccaagtg tttaactgaa tattcatcta agcaaagtgg 180
ttccanacca aatgttccag aagtttgaaa atggatttgt tcctggacgt actgcacggc 240
aanctgaagc acaggntact aacgngntna acccanc 277
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<210> 651

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 651
ggcacaggnt ccngggtgga gctggctgag tcgcgcgctc tgctccaccc gggggggctg 60
ttttttctgg gcctggctcg cggcgnacng agatggnagn gcagtnggac gaggccgtga 120
agtaatacac cctaggagga gattcagaag cacaaccaca gcaagagcac ctggnctgat 180
cctgncacca caaggtgtac gaatttgacc aaatttctgg nagaggcatc cctggtgggg 240
gaggaagttt taaggggaac aagcttgag gtgacgctac ttgaggaant tttgaggnt 300
gttcggggca cttttaccag ntgncccaag ggaaaattgt tcccaaaaac atttnca 357

576

<210> 652
<211> 190
<212> DNA
<213> Homo sapiens.

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<400> 652
ggacgctact tcccctatca tagaagagct tatcaccttt catgatcacg ccctcataat 60
cattttcctt atctgcttcc tagtcctgta tgcccttttc ctaacactca caacaaaact 120
aactaatact aacatctnag acgctnanga aatagaaacc gtctgaacta tncgtcccgn 180
catcatccta 190

<210> 653
<211> 603
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c

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<400> 653
gtctcgaccc cgccggagga ggagacccca ttctatacca acacctatc tgatttttcg 60
gtcaccctga agtttatatt cttatcctac caggcttcgg aataatctcc catattgtaa 120
cttactactc cggaaaaaaaa gaaccatttg gatacatagg tatggtctga gctatgatat 180
caattggctt cctaggggtt atcgtgtgag cacaccatat atttacagta ggaatagacg 240
tagacacacg agcatatttc acctccgcta ccataatcat cgctatcccc accggcgta 300
aagtatttag ctgactcgcc aactccacg gaagcaatat gaaatgatct gctgcagtgc 360
tctgagccct aggattcatc ttcttttca ccgtagggtg cctgactggc attgnattag 420
caaactcatc actagacatc gtactacacg acacgtacta ccgttgtagc ccacttccac 480
tatgtcctat caataggagc tggatttgcc atcataggaa ggcttcattc actgatttcc 540
ctattctcag gctacaccct agaccaaacc tacgcaaaa atcatttcac taccataatn 600
cac
603

<210> 654
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<400> 654
ggtttttttc ttgcgaggat ttttctgagc cttttaccac tccagcctag cccctacccc 60
ccaattagga gggcactggc cccaacagc catcaccccg ctaaattccc tagaagtccc 120

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578

```

actcctaaac acatccgtat tactcgcatc aggagtatca atcacctgag ctcaccatag 180
tctaataagaa aacaaccnaa accaaataat tcaagcactg cttattacaa ttttactggg 240
tctctatttt accctcctac aaagcctcan agtacttcga gtctcccttc accatttccg 300
anggcatacta cggctcaaca ttttttgnag cccaggcttn cacgganttt cacgtc 356

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<210> 655

<211> 682

<212> DNA

<213> Homo. sapiens

<220>

<221> misc feature

<222> (660)

<223> n equals a,t,g, or c

<400> 655

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gcgcaagtag gtctacaaga cgctacttcc cctatcatag aagagcttat cacctttcat 60
gatcacgccc tcataatcat tttccttata tgcttcctag tcctgtatgc ccttttccta 120
acactcacia caaaactaac taataactaac atctcagacg ctcaggaaat agaaaccgtc 180
tgaactatcc tgcccgcctat catcctagtc ctcacgcccc tcccatccct acgcatcctt 240
tacataacag acgagggtcaa cgatccctcc cttaccatca aatcaattgg ccaccaatgg 300
tactgaacct acgagtacac cgactacggc ggactaatct tcaactccta catacttccc 360
ccattattcc tagaaccagg cgacctgcga ctccttgacg ttgacaatcg agtagtactc 420
ccgattgaag cccccattcg tataataatt acatcacaag acgtcttgca ctcatgagct 480
gtccccacat taggcttaaa aacagatgca attccccggac gtctaaacca aaccactttc 540
accgctacac gaccgggggt atactacggc caatgctctg aaatctgtgg agcaaaccac 600
agtttcatgc ccatcggcct agaattaatt cccctaaaaa tctttgaaat aagggcccg 660
atttacccta tagcaccct ct 682

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<210> 656

<211> 520

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

579

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<400> 656

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gagaagagct tatcaccttt catgatacag ccttcataat cattttcctt atctgcttcc 60
tagtcctgta tgcccttttc ctaacactca caacaaaact aactaatact aacatctcag 120
acgctcagga aatagaaacc gtctgaacta tcttgccgc catcatccta gtcctcatcg 180
ccctcccatc cctacgcata ctttacataa cagacgaggt caacgatccc tcccttacca 240
tcaaataaat tggcaccaat ggtactgaac ctacgagtac accgactacg gcggactaat 300
cttcaactcc tacatacttc cccattatt cctagaacca ggcgacctgc gactccttga 360
cggtgacaat cgagtagtac tcccgattga agccccattc gtataataat tacatcacia 420
gacgcttgna ctcaagagct gnccacant aggcttaaaa acaggatgca atttccgggc 480
ggntnaaaca aaacaatttt accggtacac gaacgggggg 520

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<210> 657

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (340)

<223> n equals a,t,g, or c

<400> 657

```

gcactttctg ccaaagaaat ctctcctttt gcttctagca ccgactagat ttccttcagc 60
tgatgattga ctcccagaat tcgaaaagaa ctgagtccca caaagctctg tctgatctgg 120
agctcgagc ccagtcaata atcttcattt ttgctggcta tgaaaccacc agcagtgttc 180
tttcttcac tttatatgaa ctggccactc accctgatgt ccagcnaaaa ctgcaaaagg 240
gagattgatg cagttttgcc caataaggca ccacctacct atgatgccgt ggtacagatg 300
gattaccttg acatggtggt gaatgaaacc tcaaattatn ccgcttggtg tta 353

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<210> 658

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
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<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 658
ggcanaggcc accaccatcc tgcattgccc actttacttg gccttctcct ggctetaact 60
caggcagcca agaccctcc cacttccttc ttgggctcc ctctcctcag gtatgaaaat 120
gaagctggcc ctgcgccag gcgttgaag gctgacatca acggcttgcc cggagtcctg 180
ggatgagctg accctggcca ggnctgacct ggagntgcag atcgagggcc tgaatgaggn 240